ORDER NO. GAD8705087C3

Service Manual

Radio Cassette

Portable Stereo Component System

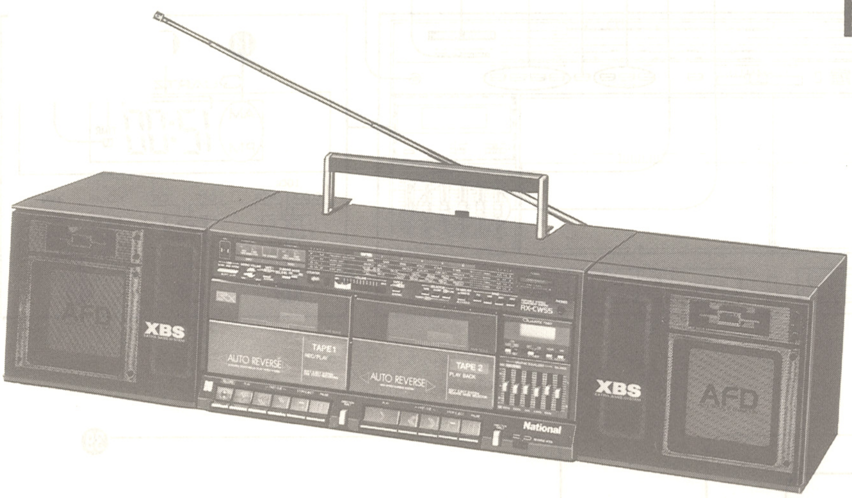
RX-CW55F

(Black)

This is the Service Manual for the following areas.

[X].... For Asia, Latin America, Middle East and Africa areas.

[XC]....For Saudi Arabia



RX-C66F MECHANISM SERIES

■ SPECIFICATIONS

General:

Power Requirement:	AC;110-127, 200-220,230-250V,50/60HZ Battery;15V(Ten"D"Size Fiashlight Battery) (National UM-1 or equivalent) Car Battery; With optional car battery cord RP-9550
Power Consumption:	38W
Power Output:	60W(30X2)....PMPO 28W(14X2)....RMS(max)
Speaker:	Woofer;10cm x 10cm PM Dynamic speaker(3Ω) Tweeter;2cm Ceramic speaker(1kΩ) Extra Bass;5cm x13cm
Input:	Mix Mic;sensitivity2.2mV/ applicable microphome impedance 200~600Ω(Ø3.5) CD/Line in;sensitivity 400mV/50KΩover
Output:	Headphones;32Ω(8~50Ω).Ø3.5 EXT SP;3~8Ω
Dimensions:	Total Size; 725(W)x163(H)x188(D)mm Main Unit; 355(W)x163(H)x188(D)mm Speaker Box; 191(W)x163(H)x168(D)mm
Weight;	6.0kg Without batteries

Design and specifications are subject to change without notice.

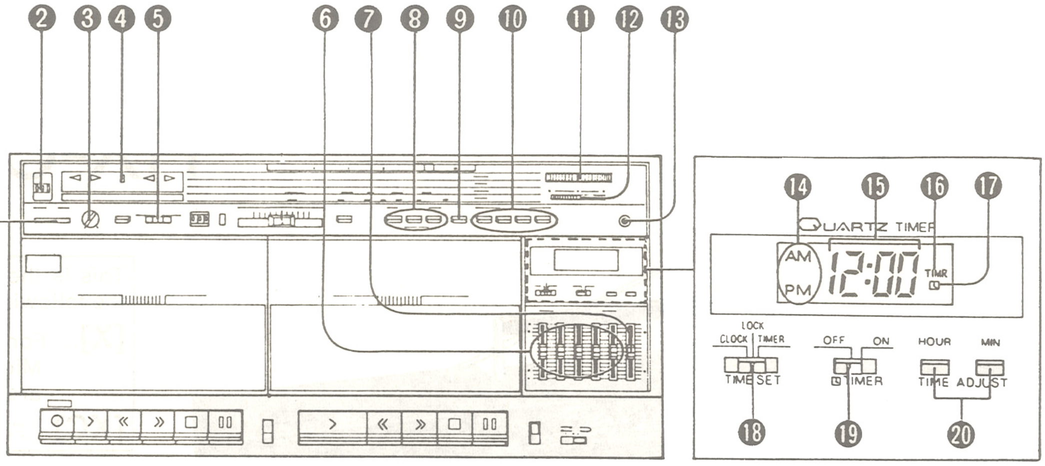
Radio Section;

Radio Frequency Range;	
	FM;88~108MHz MW;530~1605KHz(566~187m) SW1;2.3~7.0MHz(130~42.9m) SW2;7.0~22.0MHz(42.9~13.6m)
Intermediate frequency;	
	FM;10.7MHz AM(MW/SW1/SW2);455KHz
Sensitivity:	FM;4.2μV/500mW output (-3db limit Sens) MW;112μV/m/50mW output SW1;89μV/m/50mW output SW2;10μV/50mW output
Tape Deck Section:	**Tape 1**
Frequency Response:	60~12,000Hz(with normal tape) 60~13,000Hz(with CrO2 tape)
Recording System:	AC bias,Magnet erase
Tape Speed:	4.8cm/s
Track System:	4-track 2-channel stereo recording and playback
Tape Deck Section:	**Tape 2**
Frequency Response:	60~12,000Hz(with normal tape) 60~13.000Hz(with CrO2 tape)
Tape Speed:	4.8cm/s
Track System:	4-track 2-channel stereo playback
TIMER/CLOCK:	
Power Requirement:	Battery;DC 1.5V (One "AA"Size Battery)
Accuracy:	±20seconds(+25°C)

National

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

LOCATION OF CONTROLS



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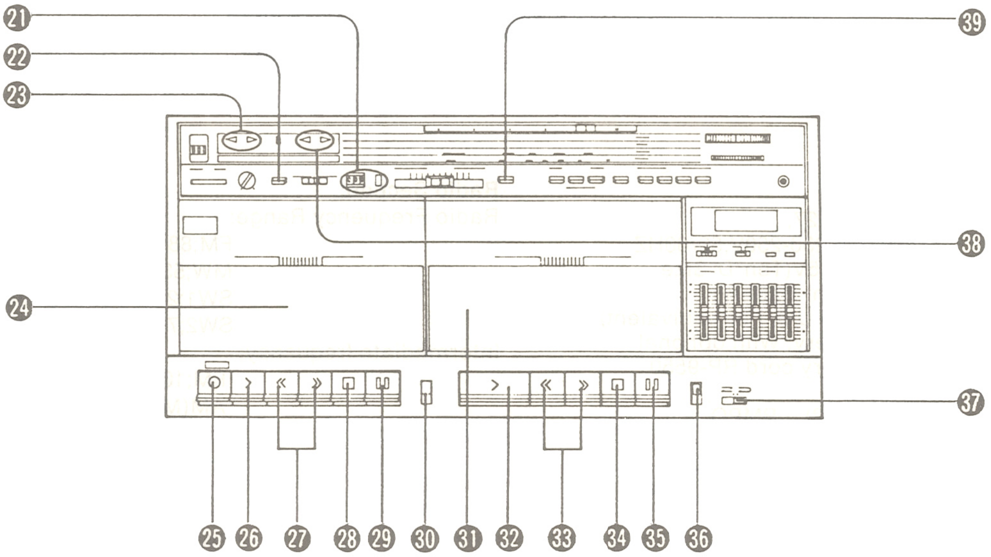
⓱
QUARTZ TIMER
AM
PM
12:00
TIMR
LOCK
CLOCK
TIMER
TIME SET
OFF
ON
TIMER
HOUR
MIN
TIME ADJUST
⓲
⓳
⓴



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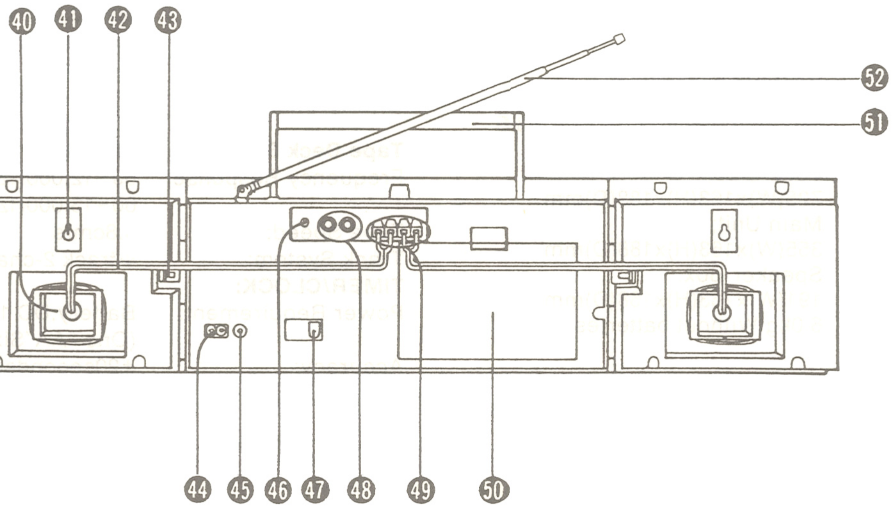

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(51)
(52)

GENERAL

① Extra Bass Switch (XBS)
② Built-in Microphone (MIC)
③ Mixing Level Control (MIXING LEVEL)
④ FM Stereo Indicator (FM STEREO)
⑤ Dubbing Mode Selector (DUBBING)
⑥ Volume Control (VOLUME)
⑦ Graphic Equalizer Controls
(GRAPHIC EQUALIZER)
"100 Hz" Control functions as an XBS Level Control.
⑧ Function Selector (SELECTOR)
⑨ FM Mode Selector/Beat Proof Switch
⑩ (FM MODE/B.P)
Band Selector (BAND)
⑪ Tuning Control (TUNING)
⑫ Fine Tuning Control (FINE TUNING)
⑬ Headphones Jack (PHONES) **32Ω (8~50Ω) ∅3.5**

When using the headphones (EAH-S12, optional), avoid listening to sound at excessive volume levels, because it may injure your ears.

CLOCK/TIMER

⑭ AM-PM Indicators (AM-PM)
⑮ Clock/Timer Display
⑯ Timer On Indicator (TIMER)
⑰ Timer Set Indicator (◷)
⑱ Time Set Selector (TIME SET)
⑲ Timer Switch (◷ TIMER)

The Timer Switch does not function during SW broadcast reception.

⑳ Time Adjust Buttons (TIME ADJUST)

TAPE 1

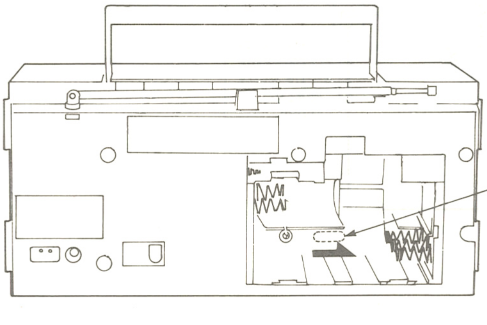
㉑ Tape Counter and Reset Button (COUNTER)
㉒ Tape Selector (TAPE 1)
㉓ Power/Battery Check/Tape Direction
㉔ Indicators (POWER/BATT/TAPE DIRECTION)
Cassette Compartment
㉕ Record Button (○ RECORD)
㉖ Playback Button (> PLAY)
㉗ Fast/Cue Buttons («·» FAST/CUE)
㉘ Stop/Eject Button (□ STOP/EJECT)
㉙ Pause Button (▯▯ PAUSE)
㉚ Direction Button (DIRECTION TAPE 1)

TAPE 2

㉛ Cassette Compartment
㉜ Playback Button (> PLAY)
㉝ Fast/Cue Buttons («·» FAST/CUE)
㉞ Stop/Eject Button (□ STOP/EJECT)
㉟ Pause Button (▯▯ PAUSE)
㊱ Direction Button (DIRECTION TAPE 2)
㊲ Reverse Mode Selector (REVERSE MODE)
㊳ Power/Battery Check/Tape Direction
㊴ Indicators (POWER/BATT/TAPE DIRECTION)
Tape Selector (TAPE 2)

REAR PANEL

㊵ Speaker Cable Compartments
㊶ Speaker Wall Mounts
㊷ Speaker Cables
㊸ Speaker Release Levers (RELEASE)
㊹ AC Socket (AC IN ~)
㊺ DC Input Jack [DC IN 13.2 V (12–15V) ⊖-⊙-⊕]
㊻ Mixing Microphone Jack (MIXING MIC)
2.2 mV/200~600Ω, ∅3.5
㊼ Voltage Selector (VOLTAGE SELECTOR)
Not provided for the model for 240 V, 50 Hz areas.
㊽ CD/Line Input Jacks (CD/LINE IN)
400 mV/50 kΩ over
㊾ Speaker Terminals (SPEAKER IMP 3–8 Ω)
㊿ Battery Compartment
(51) Handle
(52) Telescopic Antenna



When the tape is caught in the pinch roller, etc. release the tape by tuning the pulley on the motor with the screwdriver in the direction of the arrow.

DISASSEMBLY INSTRUCTIONS

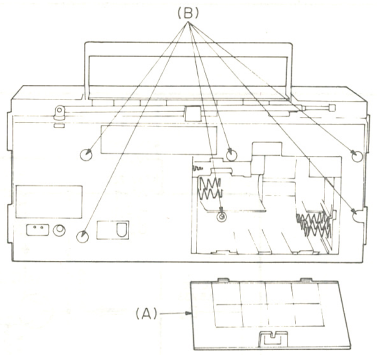


Fig. 1

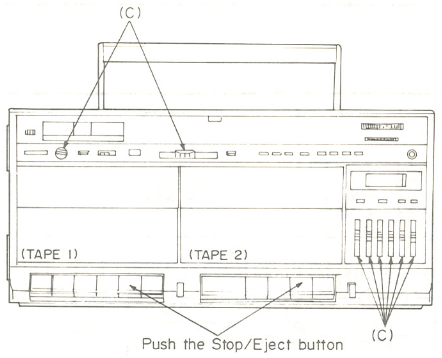

(C)
(TAPE 1)
(TAPE 2)
Push the Stop/Eject button
(C)

Fig. 2

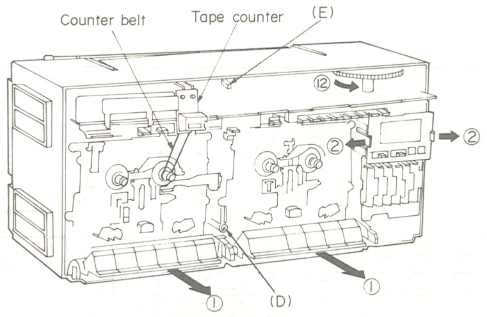

Counter belt
Tape counter
(E)
⑫
②
②
①
(D)
①

Fig. 3

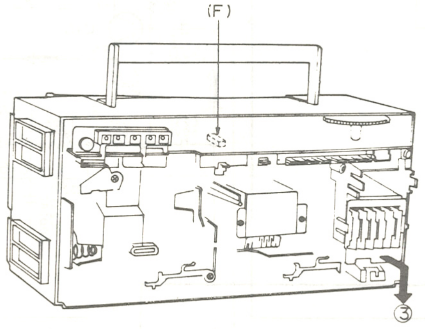


Fig. 4

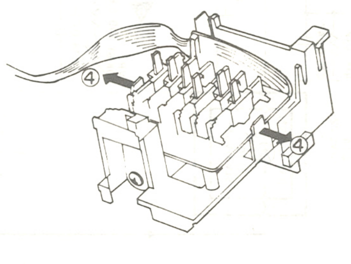


Fig. 5

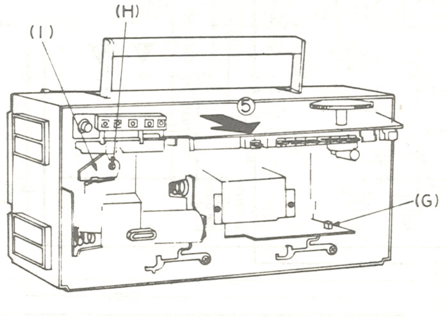


Fig. 6

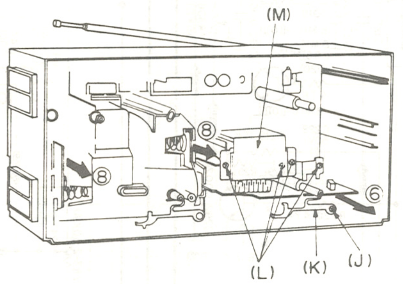


Fig. 7

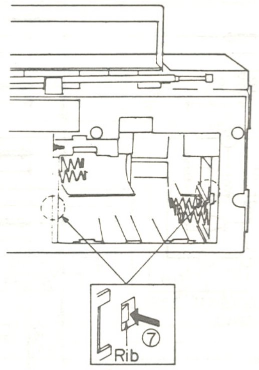


Fig. 8

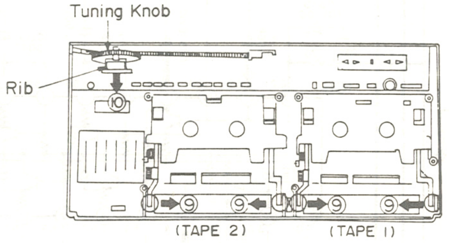
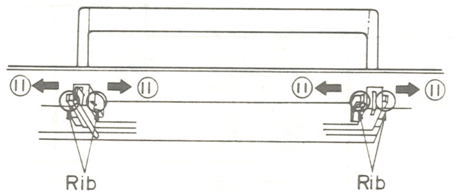

Tuning Knob
Rib
⑩
⑨
⑨
⑨
⑨
(TAPE 2)
(TAPE 1)

Fig. 9


⑪
⑪
⑪
⑪
Rib
Rib

(Rear Cabinet in Side)

Fig. 10

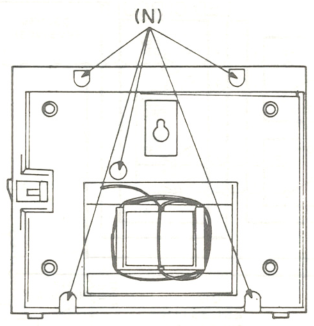


Fig. 11

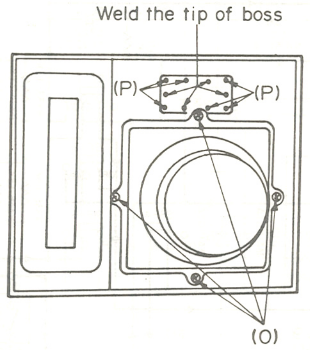

Weld the tip of boss
(P)
(P)
(O)

Fig. 12

■ MAIN UNIT SECTION

Steps	Shown in Fig.—.	To remove—.	Remove—.
1	1	Front Cabinet Ass'y	Remove the battery cover .... (A)×1
2			Screw (3×60) mm .... (B)×6
3	2		Knob .... (C)×8
4			Push the Stop/Eject button (Tape 1, Tape 2)
5	3	Mechanism Unit (Tape 1, Tape 2)	Remove the counter belt and pull out the tape counter.
6			Remove the button chassis ass'y (tape 1, tape 2) in the direction of the arrow ①.
7			Screw (3×25) mm .... (D)×1
8	3	LCD Circuit Board	Connector (CN7) .... (E)×1
9			Push the rib in the direction of arrow ② and remove the LCD circuit board.
10	4	Graphic EQ Circuit Board	Connector (CN101) .... (F)×1
11			Remove the graphic EQ holder in the direction of arrow ③.
12	5		Push the rib in the direction of arrow ④ and remove the graphic EQ circuit board.
13	6	Main Circuit Board	Connector (CN100) .... (G)×1
14			Screw (3×8) mm .... (H)×1
15			Record/playback lever .... (I)×1
16			Pull out the main circuit board in the direction of arrow ⑤.
17	7	Power Supply Circuit Board	Screw (3×8) mm .... (J)×1
18			Direction lever-B .... (K)×1
19			Screw (3×10) mm .... (L)×4
20			Shield plate .... (M)×1
21			Pull out the power supply circuit board in the direction of arrow ⑥.
22	7, 8	Battery Circuit Board	Push rib in the direction of the arrow ⑦ and remove the battery circuit board in the direction of the arrow ⑧.
23	9	Cassette Compartment Cover (Tape 1, Tape 2)	Remove the cassette compartment cover by pulling one side at a time toward the front of the set while pushing it with a standard screwdriver in the direction of the arrow ⑨.
24	9	Tuning Knob	Push the rib in the direction of the arrow ⑩.
25	10	Handle	Remove the rib in the direction of the arrow ⑪.

■ SPEAKER BOX SECTION

Steps	Shown in Fig.—.	To remove—.	Remove—.
26	11	Rear Cabinet Ass'y	Screw (3×50) mm .... (N)×5
27	12	Speaker (Woofer)	Screw (3×8) mm .... (O)×4
28	12	Tweeter Ass'y (※1)	Cut the tip of boss .... (P)×6

(※1)When replacing the tweeter, attach the tweeter to the speaker cabinet by welding it to the remainder of the boss.

■ 0 (ZERO) POINT ADJUSTMENT

1. Line up the dial point in the front cabinet assembly with the "0" point graduation as shown in Fig. 13.
2. Turn the variable capacitor gear on the main circuit board all the way in the direction of arrow ⑫. (Fig. 3)
3. Next, assemble the front and rear cabinets, and the 0 (zero) point adjustment is complete.

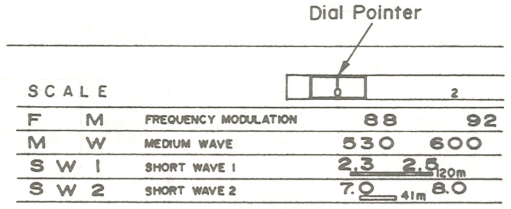

Dial Pointer
SCALE
0
2
F M FREQUENCY MODULATION 88 92
M W MEDIUM WAVE 530 600
S W 1 SHORT WAVE 1 2.3 2.5 120m
S W 2 SHORT WAVE 2 7.0 41m 8.0

Fig. 13

■ Mounting of the mechanism operation buttons

Mount the mechanism operation buttons and levers as shown in Fig. 14.

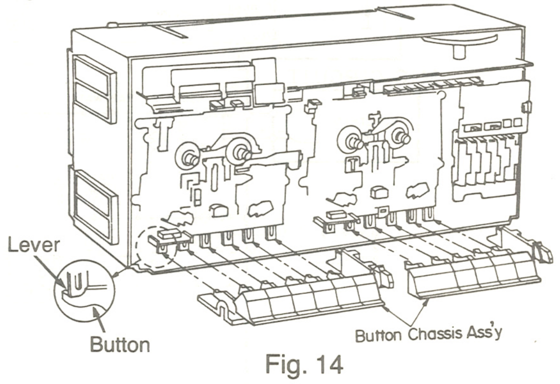
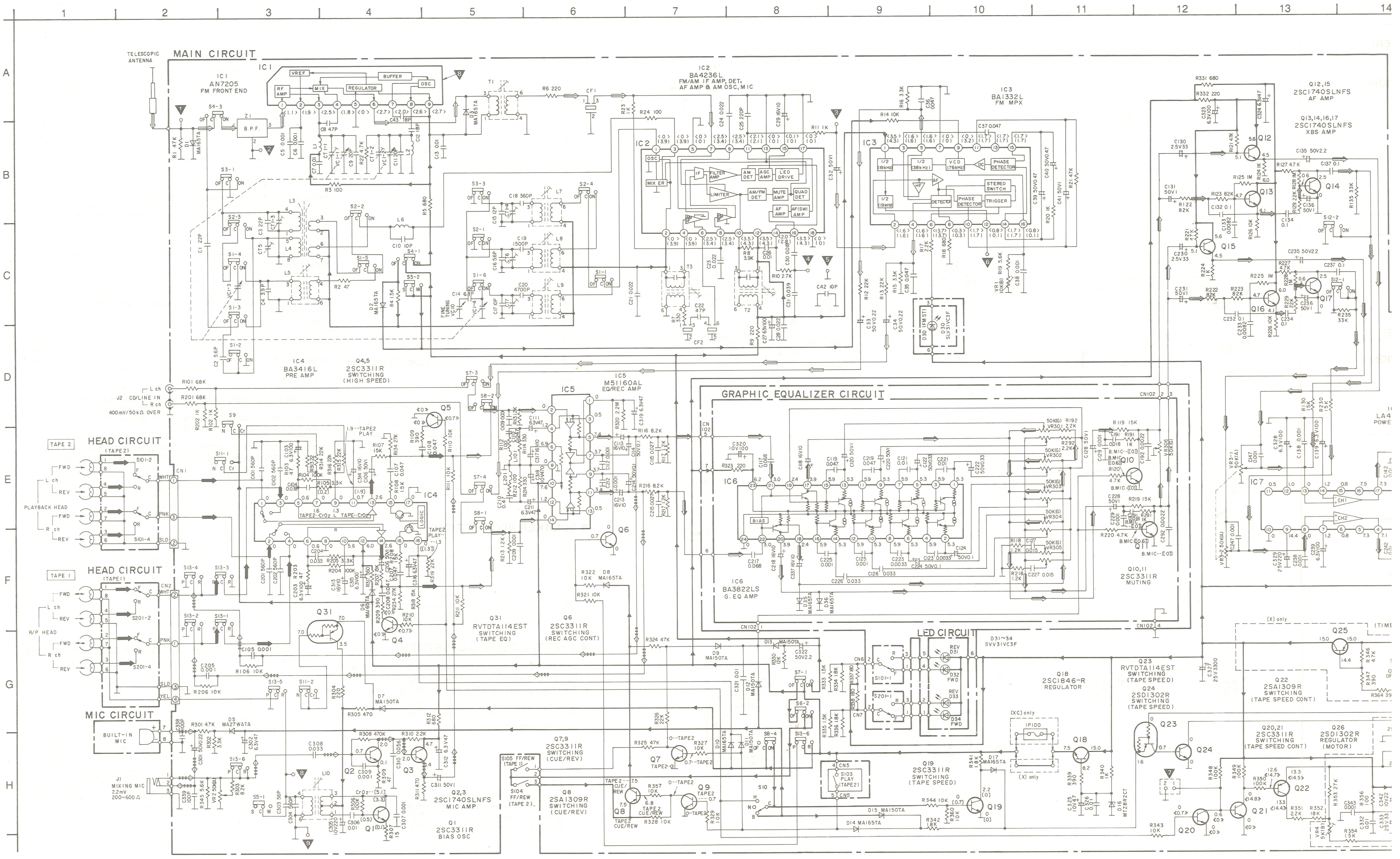

Lever
Button
Button Chassis Ass'y

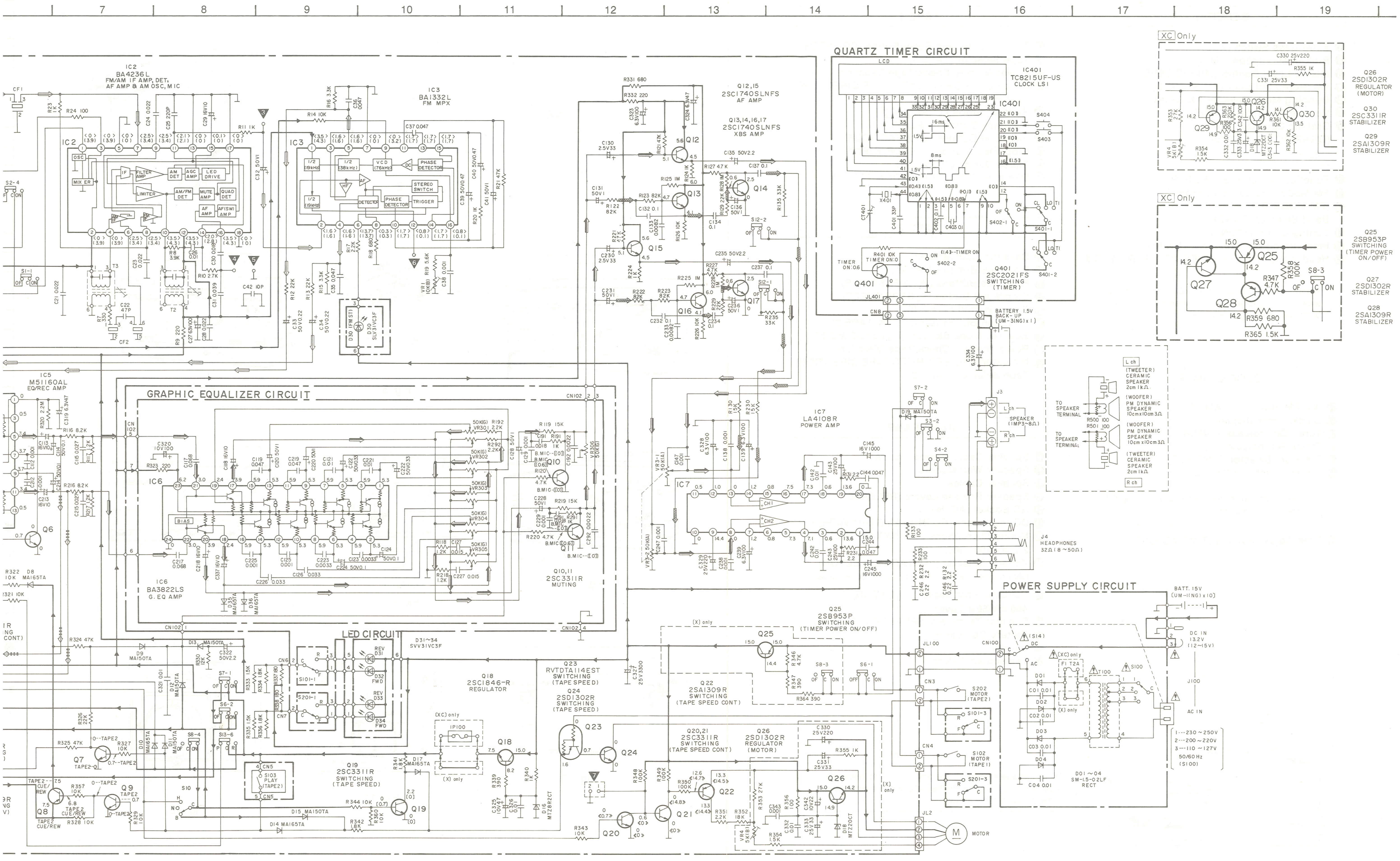
Fig. 14

▼ Be sure to fold at the (▼) mark so that mark is on the outside.

SCHEMATIC DIAGRAM


MAIN CIRCUIT
TELESCOPIC ANTENNA
IC1 AN7205 FM FRONT END
IC2 BA4236L FM/AM IF AMP, DET, AF AMP & AM OSC, MIC
IC3 BA1332L FM MPX
Q12,15 2SC1740SLNFS AF AMP
Q13,14,16,17 2SC1740SLNFS XBS AMP
IC4 BA3416L PRE AMP
Q4,5 2SC3311R SWITCHING (HIGH SPEED)
IC5 M51160AL EQ/REC AMP
J2 CD/LINE IN
400mV/50kΩ OVER
HEAD CIRCUIT (TAPE2)
HEAD CIRCUIT (TAPE1)
TAPE 2
TAPE 1
PLAYBACK HEAD
R/P HEAD
GRAPHIC EQUALIZER CIRCUIT
IC6 BA3822LS G. EQ AMP
Q10,11 2SC3311R MUTING
LED CIRCUIT
D31~34 SVV31VC3F
Q31 RVTDTA114EST SWITCHING (TAPE EQ)
Q6 2SC3311R SWITCHING (REC AGC CONT)
MIC CIRCUIT
BUILT-IN MIC
J1 MIXING MIC 2.2mV 200~600Ω
Q2,3 2SC1740SLNFS MIC AMP
Q1 2SC3311R BIAS OSC
Q7,9 2SC3311R SWITCHING (CUE/REV)
Q8 2SA1309R SWITCHING (CUE/REV)
Q18 2SC1846-R REGULATOR
Q19 2SC3311R SWITCHING (TAPE SPEED)
Q23 RVTDTA114EST SWITCHING (TAPE SPEED)
Q24 2SD1302R SWITCHING (TAPE SPEED)
Q22 2SA1309R SWITCHING (TAPE SPEED CONT)
Q20,21 2SC3311R SWITCHING (TAPE SPEED CONT)
Q26 2SD1302R REGULATOR (MOTOR)
IC7
(X) only
(XC) only
IP100
S103 PLAY (TAPE2)
S104 FF/REW (TAPE 2)
S105 FF/REW (TAPE 1)

SCHEMATIC DIAGRAM


7
8
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11
12
13
14
15
16
17
18
19
IC2
BA4236L
FM/AM IF AMP, DET, AF AMP & AM OSC, MIC
IC3
BA1332L
FM MPX
Q12,15
2SC1740SLNFS
AF AMP
Q13,14,16,17
2SC1740SLNFS
XBS AMP
QUARTZ TIMER CIRCUIT
LCD
IC401
TC8215UF-US
CLOCK LSI
Q401
2SC2021FS
SWITCHING
(TIMER)
TIMER ON:0.6
BATTERY 1.5V BACK-UP (UM-3(NG)×1)
XC Only
Q26
2SD1302R
REGULATOR
(MOTOR)
Q30
2SC3311R
STABILIZER
Q29
2SA1309R
STABILIZER
Q25
2SB953P
SWITCHING
(TIMER POWER ON/OFF)
Q27
2SD1302R
STABILIZER
Q28
2SA1309R
STABILIZER
IC5
M51160AL
EQ/REC AMP
GRAPHIC EQUALIZER CIRCUIT
IC6
BA3822LS
G. EQ AMP
Q10,11
2SC3311R
MUTING
IC7
LA4108R
POWER AMP
L ch
(TWEETER) CERAMIC SPEAKER 2cm 1kΩ
(WOOFER) PM DYNAMIC SPEAKER 10cm×10cm 3Ω
TO SPEAKER TERMINAL
SPEAKER (IMP 3~8Ω)
R ch
J3
J4
HEADPHONES 32Ω (8~50Ω)
POWER SUPPLY CIRCUIT
BATT. 15V (UM-1(NG)×10)
DC IN 13.2V (12~15V)
AC IN
1---230~250V
2---200~220V
3---110~127V
50/60Hz
(S100)
D01~04
SM-1.5-02LF
RECT
LED CIRCUIT
D31~34
SVV3IVC3F
Q18
2SC1846-R
REGULATOR
Q19
2SC3311R
SWITCHING
(TAPE SPEED)
Q23
RVTDTA114EST
SWITCHING
(TAPE SPEED)
Q24
2SD1302R
SWITCHING
(TAPE SPEED)
Q22
2SA1309R
SWITCHING
(TAPE SPEED CONT)
Q20,21
2SC3311R
SWITCHING
(TAPE SPEED CONT)
Q26
2SD1302R
REGULATOR
(MOTOR)
MOTOR
(X) only
(XC) only
IP100
T100
F1 T2A
S103 PLAY (TAPE2)
REV D31
FWD D32
REV D33
FWD D34
Q6
Q7
Q8
Q9
TAPE2 CUE/REW

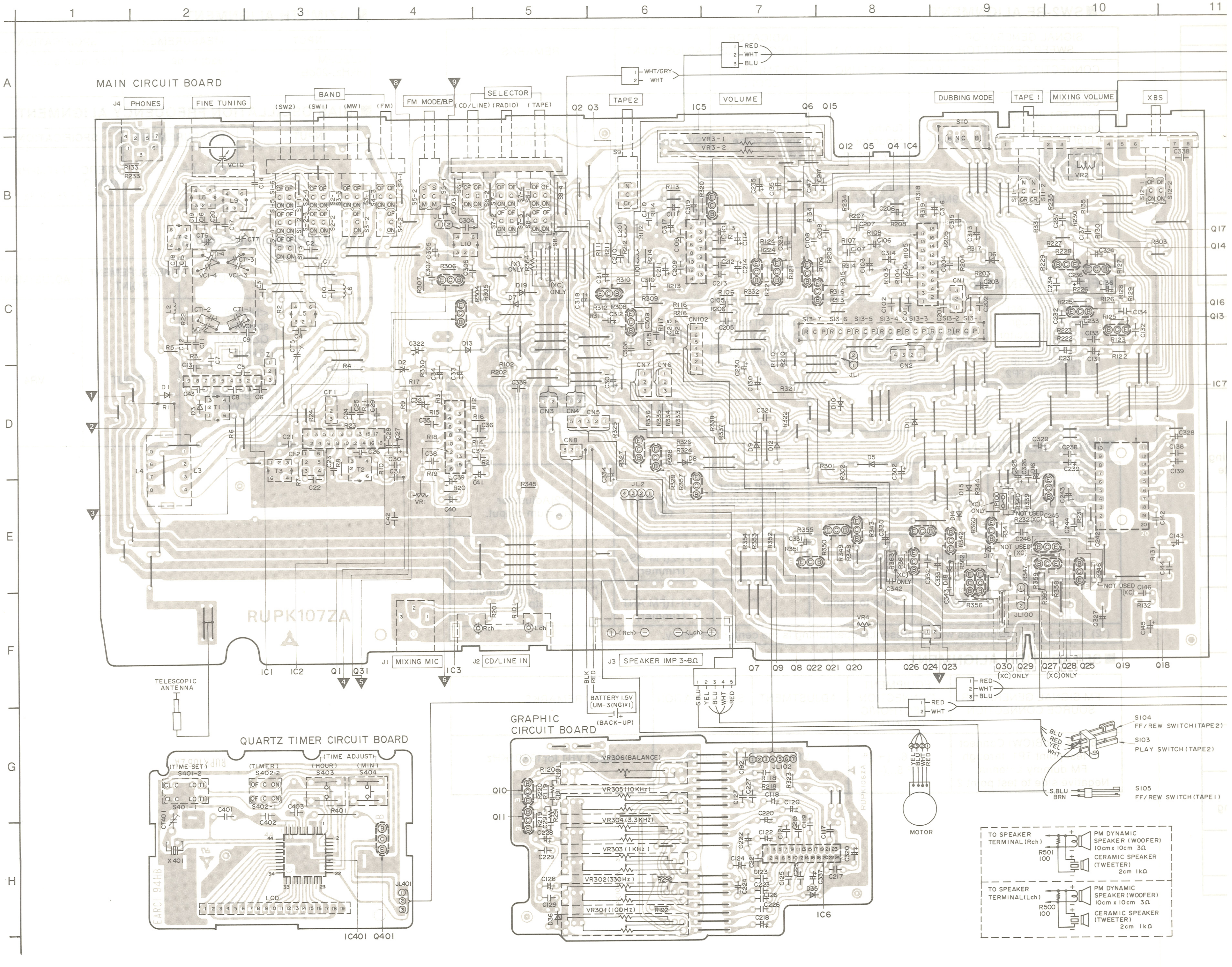
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

Notes: (For schematic diagram)

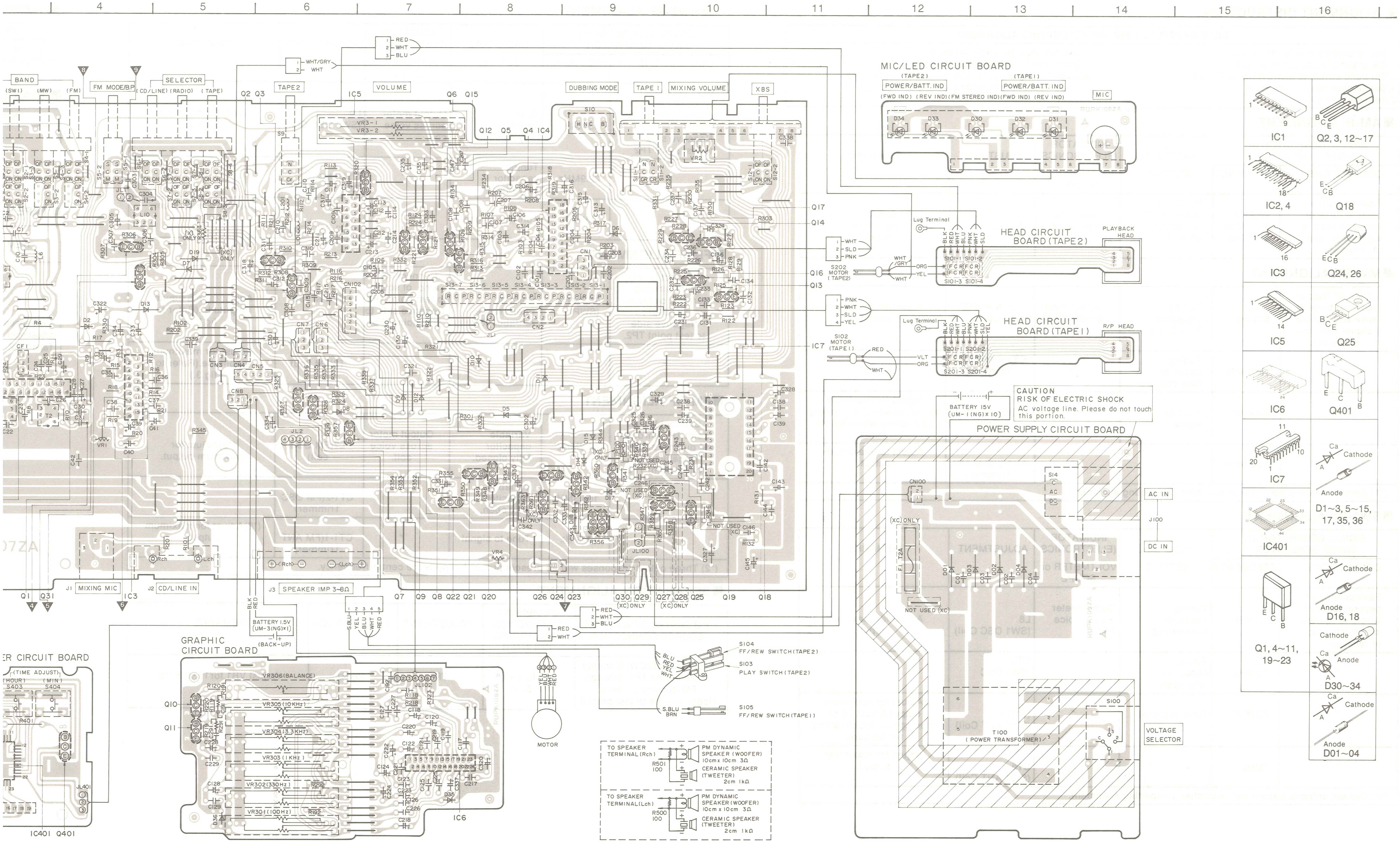
1. S1~S4: Band select switch in "FM" position. (S1-1~S1-4…SW1, S2-1~S2-4…SW2, S3-1~S3-4…MW, S4-1~S4-4…FM)
2. S5-1, S5-2: FM mode/B.P select switch in "STEREO/I" position. (S…STEREO/I, M…MONO/II)
3. S6~S8: Function select switch in "TAPE/POWER OFF" position. (S6-1, S6-2…RADIO, S7-1~S7-4…CD/LINE, S8-1~S8-3…TAPE/POWER OFF)
4. S9-1, S9-2: Tape select switch in "NORMAL" position. (TAPE 2) (N…NORMAL, Cr…CrO_2/METAL)
5. S10: Dubbing mode select switch in "BUILT IN MIC" position. (B…BUILT IN MIC, N…NORMAL, H…HIGH)
6. S11-1, S11-2: Tape select switch in "NORMAL" position. (TAPE 1)
7. S12-1, S12-2: XBS select switch in "ON" position. (ON…ON, OF…OFF)
8. S13-1~S13-7: Record/playback switch in playback position. (R…RECORD, P…PLAYBACK)
9. S100: Voltage select switch.
10. S101-1~S101-3: Delection switch in "FWD" position. (TAPE 2) (F…FWD, R…REV)
11. S102: Motor switch (TAPE 1)
12. S103: Play switch (TAPE 2)
13. S104: FF/REW switch (TAPE 2)
14. S105: FF/REW switch (TAPE 1)
15. S201-1~S201-3: Delection switch in "FWD" position. (TAPE 1)
16. S202: Motor switch (TAPE 2)
17. S401: Time set switch in "CLOCK" position. (CL…CLOCK, LO…LOCK, TI…TIMER)
18. S402-1, S402-2: Timer switch in "OFF" position.
19. S403: Time adjust switch, HOUR.
20. S404: Time adjust switch, MIN.
21. VR1: FM MPX adjustment VR.
22. VR2: Mic mixing control VR.
23. VR3-1, VR3-2: Volume control VR.
24. VR4: Tape speed adjustment VR.
25. VR301~VR3-5: G. EQ control VR.
26. VR306: Balance control VR.
27. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
    [ ]…Record position.
    No mark…Playback position,
    < >…FM, ( )…AM
    (( ))…TIMER LOCK, << >>…DUBBING (HIGH)
28. Battery Current:

No signal	....	134 mA
Maximum output Radio	......	920 mA
Tape/Playback	....	1350 mA
Tape/Recording	....	1540 mA

29. The mark (▼) shows test point. e.g. ▼1 =test point 1.
30. Important safety notice
    Components identified by ⚠ mark have special characteristics important for safety.
    When replacing any of these components, use only manufacturer's specified parts.
31. **The supply parts number is described alone in the replacement parts list.**
    - **This schematic diagram may be modified at any time with the development of new technology.**


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
MAIN CIRCUIT BOARD
J4 PHONES
FINE TUNING
BAND
(SW2) (SW1) (MW) (FM)
FM MODE/B.P
SELECTOR
(CD/LINE) (RADIO) (TAPE)
TAPE2
VOLUME
DUBBING MODE
TAPE 1
MIXING VOLUME
XBS
Q2 Q3
IC5
Q6 Q15
Q12 Q5 Q4 IC4
Q17
Q14
Q16
Q13
IC7
VR3-1
VR3-2
VR1
VR2
VR4
S10
RED
WHT
BLU
WHT/GRY
WHT
RUPK107ZA
IC1 IC2 Q1 Q31
J1 MIXING MIC
IC3
J2 CD/LINE IN
J3 SPEAKER IMP 3~8Ω
Q7 Q9 Q8 Q22 Q21 Q20
Q26 Q24 Q23
Q30 Q29 Q27 Q28 Q25
(XC)ONLY (XC)ONLY
Q19 Q18
TELESCOPIC ANTENNA
BLK
RED
BATTERY 1.5V (UM-3(NG)×1)
(BACK-UP)
S.BLU
YEL
BLU
WHT
RED
QUARTZ TIMER CIRCUIT BOARD
(TIME SET) S401-2
(TIMER) S402-2
(TIME ADJUST) (HOUR) S403 (MIN) S404
S401-1
S402-1
R401
C401
C402
C403
X401
LCD
JL401
IC401 Q401
GRAPHIC CIRCUIT BOARD
VR306(BALANCE)
VR305(10KHz)
VR304(3.3KHz)
VR303(1KHz)
VR302(330Hz)
VR301(100Hz)
Q10
Q11
JL102
IC6
MOTOR
S104 FF/REW SWITCH(TAPE2)
S103 PLAY SWITCH(TAPE2)
S105 FF/REW SWITCH(TAPE1)
S.BLU BRN
BLU RED YEL WHT
TO SPEAKER TERMINAL(Rch)
R501 100
PM DYNAMIC SPEAKER (WOOFER) 10cm×10cm 3Ω
CERAMIC SPEAKER (TWEETER) 2cm 1kΩ
TO SPEAKER TERMINAL(Lch)
R500 100
PM DYNAMIC SPEAKER (WOOFER) 10cm×10cm 3Ω
CERAMIC SPEAKER (TWEETER) 2cm 1kΩ
NOT USED (XC)
Rch
Lch

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM


4
5
6
7
8
9
10
11
12
13
14
15
16
BAND
(SW1)
(MW)
(FM)
FM MODE/B.P
SELECTOR
(CD/LINE)
(RADIO)
(TAPE)
TAPE2
VOLUME
DUBBING MODE
TAPE 1
MIXING VOLUME
XBS
RED
WHT
BLU
WHT/GRY
WHT
IC5
Q6
Q15
Q2
Q3
Q12
Q5
Q4
IC4
Q17
Q14
Q16
Q13
IC7
VR3-1
VR3-2
VR2
S10
S202 MOTOR (TAPE2)
S102 MOTOR (TAPE1)
MIC/LED CIRCUIT BOARD
(TAPE2)
(TAPE1)
POWER/BATT. IND
(FWD IND)
(REV IND)
(FM STEREO IND)
MIC
D34
D33
D30
D32
D31
Lug Terminal
HEAD CIRCUIT BOARD (TAPE2)
PLAYBACK HEAD
HEAD CIRCUIT BOARD (TAPE1)
R/P HEAD
BLK
WHT
BLU
PNK
SLD
YEL
ORG
VLT
CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not touch this portion.
BATTERY 15V (UM-1 (NG) X 10)
POWER SUPPLY CIRCUIT BOARD
CN100
S14
AC
DC
AC IN
J100
DC IN
(XC) ONLY
F1 T2A
NOT USED (XC)
D01
D02
D03
D04
C01
C02
C03
C04
T100 (POWER TRANSFORMER)
S100
VOLTAGE SELECTOR
JL1
JL2
JL100
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN102
VR1
VR4
CF1
L6
L10
R4
Rch
Lch
J1 MIXING MIC
J2 CD/LINE IN
J3 SPEAKER IMP 3~8Ω
Q1
Q31
IC3
Q7
Q9
Q8
Q22
Q21
Q20
Q26
Q24
Q23
Q30
Q29
Q27
Q28
Q25
Q19
Q18
(XC) ONLY
NOT USED
BATTERY 1.5V (UM-3 (NG) X1)
(BACK-UP)
S.BLU
YEL
BLU
WHT
RED
GRAPHIC CIRCUIT BOARD
VR306 (BALANCE)
VR305 (10KHz)
VR304 (3.3KHz)
VR303 (1KHz)
VR302 (330Hz)
VR301 (100Hz)
JL102
IC6
Q10
Q11
MOTOR
S104 FF/REW SWITCH (TAPE2)
S103 PLAY SWITCH (TAPE2)
S105 FF/REW SWITCH (TAPE1)
BRN
TO SPEAKER TERMINAL (Rch)
TO SPEAKER TERMINAL (Lch)
R501 100
R500 100
PM DYNAMIC SPEAKER (WOOFER) 10cm x 10cm 3Ω
CERAMIC SPEAKER (TWEETER) 2cm 1kΩ
ER CIRCUIT BOARD
(TIME ADJUST)
(HOUR)
(MIN)
S403
S404
R401
JL401
IC401
Q401
IC1
Q2, 3, 12~17
IC2, 4
Q18
IC3
Q24, 26
IC5
Q25
IC6
Q401
IC7
D1~3, 5~15, 17, 35, 36
IC401
D16, 18
Q1, 4~11, 19~23
D30~34
D01~04
Ca
Cathode
Anode
B
C
E

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1.Set volume control to maximum.
2.Set graphic equalizer to center.
3.Set band switch to MW,SW1,SW2,FM-ST.
4.Set function selector to radio.
5.Set fine tuning to center.
6.Set dubbing select switch to normal.
7.Set power source voltage to 15 V DC.
8.Output of signal generator should no higher than necessary to obtain an output reading.

■AM-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE	ADJUSTMENT	REMARKS
CONNECTIONS	FREQUENCY				
Fashion loop of several turns of wire and radiate signal into loop of receiver.	455kHz 30% Mod. at 400Hz	Point of non-interference. (on/about 600kHz)	Output meter across voice coil.	T3 (AM IFT)	Adjust for maximum out put.

■MW-RF ALIGNMENT

Fashion loop of several turns of wire and radiate signal into loop of reciver.	511kHz	Tuning capacitor fully closed.	Output meter across voice coil	L7(MW OSC Coil)	Adjust for maximum output.
″	1,670kHz	Tuning capacitor fully open.	″	CT1-4 (MW OSC Trimmer)	″
″	550kHz	Tune to signal	″	(*)L3(MW ANT Coil)	Adjust for maximum output.Adjust L3 by moving coil bobbin along ferrite core.
″	1,500kHz	″	″	CT1-3(MW ANT Trimmer)	Adjust for maximum output.

(*1) Cement antenna bobbin with wax after completing alignment.

■SW1-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE	ADJUSTMENT	REMARKS
CONNECTIONS	FREQUENCY				
Fashion loop of several turns of wire and radiate signal into loop of receiver.	2.25MHz	Tuning capacitor fully closed.	Output meter across voice coil.	L8 (SW1 OSC Coil)	Adjust for maximum output.
″	7.3MHz	Tuning capacitor fully open.	″	CT6 (SW1 OSC Trimmer)	″
″	2.3MHz	Tune to signal	″	(*1)L4 (SW1 ANT Coil)	Adjust for maximum output.Adjust L4 by moving coil bobbin along ferrite core.
″	7MHz	″	″	CT5 (SW1 ANT Coil)	Adjust for maximum output.

(*1)Cement antenna bobbin with wax after completing alignment.

■SW2-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE	ADJUSTMENT	REMARKS
CONNECTIONS	FREQUENCY				
Connect to test point TP1 through ceramic capacitor (10pF) Negative side to test point TP2	6.84MHz	Tuning capacitor fully closed.	Output meter across voice coil.	L9 (SW2 OSC Coil)	Adjust for maximum output.
″	22.9MHz	Tuning capacitor fully open.	″	CT7(SW2 OSC Trimmer)	″
″	7MHz	Tuning to signal.	″	L5 (SW2 OSC Coil)	Adjust for maximum output.

■FM-IF ALIGNMENT

Connect to test point 3through ceramic capacitor (0.001μF) Negative side to test point TP2.	10.7MHz (SWP)	Point of interference (on/abut 90MHz)	Connect vert. amp. of scope to test point TP3. Negative side to test point TP5.	T1(FM 1st)	Adjust for maximum amplitude.(Refer to fig.2.)
″	″	″	″	T2(FM 2nd)	Adjust for maximum amplitude.(Refer to fig.3.)

■FM-RF ALIGNMENT

Connect to test point TP1. through FM dummy antenna. Negative side to test point TP2.	86.2MHz	Variable capacitor fully closed.	Output meter across voice coil.	L2(FM OSC coil)	(*2)Adjust for maximum output.
″	109.3MHz	Variable capacitor fully open.	″	CT1-2(FM OSC Trimmer)	″
″	106MHz	Tune to signal	″	CT1-1(FM ANT Trimmer)	(*2)Adjust for maximum output.

(*2) Three output responses will be present;proper tuning is the center frequency.

■SEPARATION ALIGNMENT

FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
98MHz,60dB(CW) Connect to test point TP1. through FM dummy antenna. Negative side to test point 2.	TP 6...(+) TP 5...(-)	VR1	19kHz	Adjust VR1,for19±01KHz

■ AZIMUTH ALIGNMENT

INPUT	MEASUREMENT	SPCIFICATION	ADJUSTMENT	REMARKS
QZZCFM (8kHz,-20dB)	Headphone Jack	Maximum output.	Azimuth screw (Refer to Fig.5)	Playback mode FWD And REV Playback Tape 1 and Tape 2

■ BIAS OSCILLATION FREQUENCY ALIGNMENT

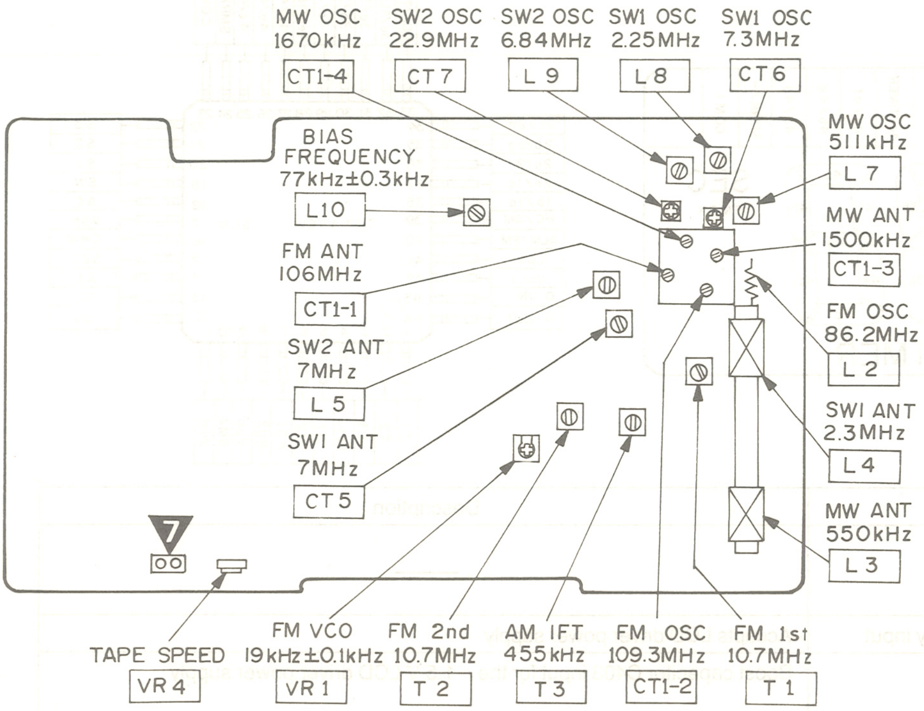
INPUT	MEASUREMENT	SPCIFICATION	ADJUSTMENT	REMARKS
-----	TP 8....(+) TP9....(-)	STERO..77±0.3kHz MONO.. 73.5~75.5KHz	L10	Record mode Beet proof switch...I Tape selector....Normal

■ TAPE SPEED ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	ADJUSTMENT	REMARKS
Tape speed adjustment Tape 1 & 2	<Normal speed> QZZCWAT (3 kHz)	SP OUT	VR4	<Normal speed adjustment> 1. Set the tape speed to normal 2. Tape 2…3,010±10 Hz Tape 1…-20^{+30}_{-70} Hz of tape speed of tape 2
	<High speed> QZZCWC (1.5 kHz)			<High speed adjustment> 1. Short ▼7 as shown in the Fig. 4 above to enter the high speed mode. 2. Tape 2…2,709 Hz Tape 1…2,691 Hz

■ ALIGNMENT POINT

*Please refer to Circuit Board an Wiring Connection Diagram for test point locations.


MW OSC 1670kHz CT1-4
SW2 OSC 22.9MHz CT7
SW2 OSC 6.84MHz L9
SW1 OSC 2.25MHz L8
SW1 OSC 7.3MHz CT6
BIAS FREQUENCY 77kHz±0.3kHz L10
MW OSC 511kHz L7
MW ANT 1500kHz CT1-3
FM ANT 106MHz CT1-1
FM OSC 86.2MHz L2
SW2 ANT 7MHz L5
SW1 ANT 2.3MHz L4
SW1 ANT 7MHz CT5
MW ANT 550kHz L3
7
TAPE SPEED VR4
FM VCO 19kHz±0.1kHz VR1
FM 2nd 10.7MHz T2
AM IFT 455kHz T3
FM OSC 109.3MHz CT1-2
FM 1st 10.7MHz T1

Note: Short 7 to adjust the high speed mode

Fig. 1

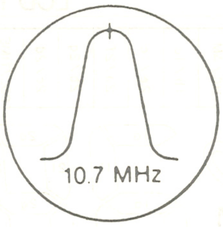


Fig. 2

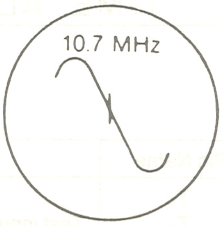


Fig. 3

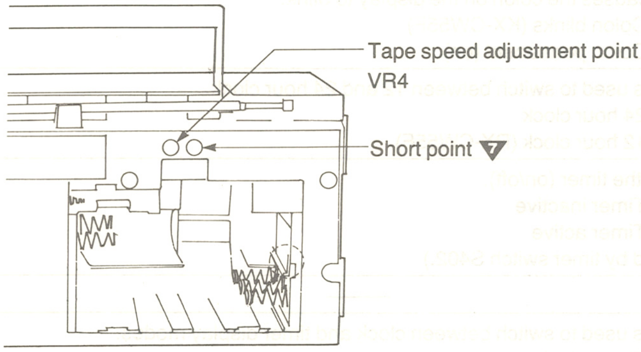

Tape speed adjustment point VR4
Short point 7

Fig. 4

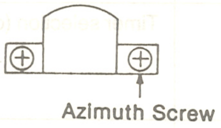
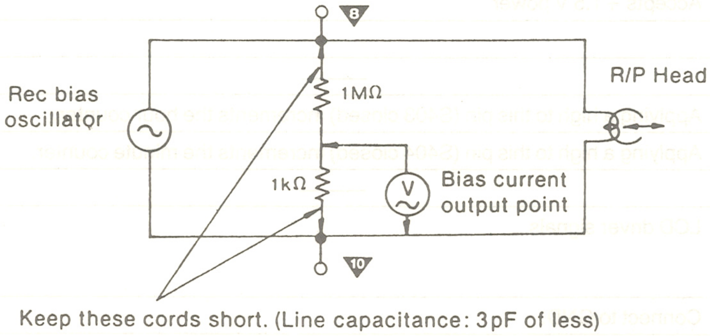

Azimuth Screw

Fig. 5

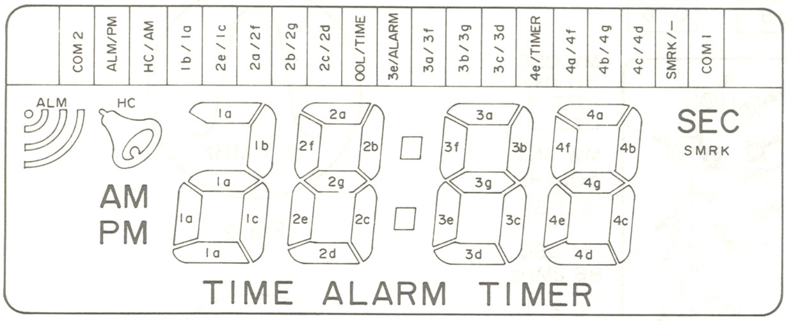

8
Rec bias oscillator
1MΩ
1kΩ
V
Bias current output point
R/P Head
10
Keep these cords short. (Line capacitance: 3pF of less)

- In-order not to influence the bias osillation, divide the voltage with 1MΩ and 1kΩ resistors, and measure the voltage across the 1kΩ resistor.

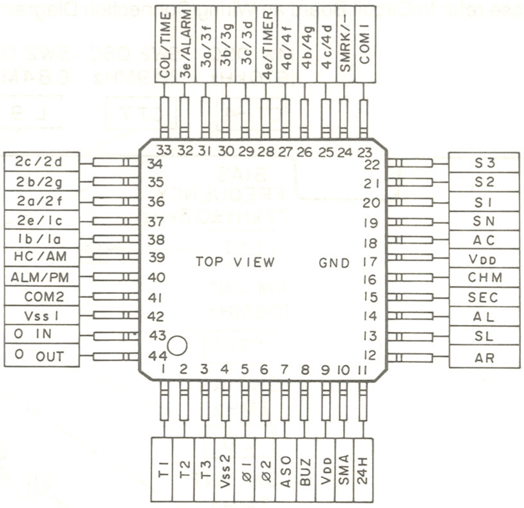
Fig. 6

IC104 (TC8215UF-US) EACH TERMINAL FUNCTION

LCD TERMINAL

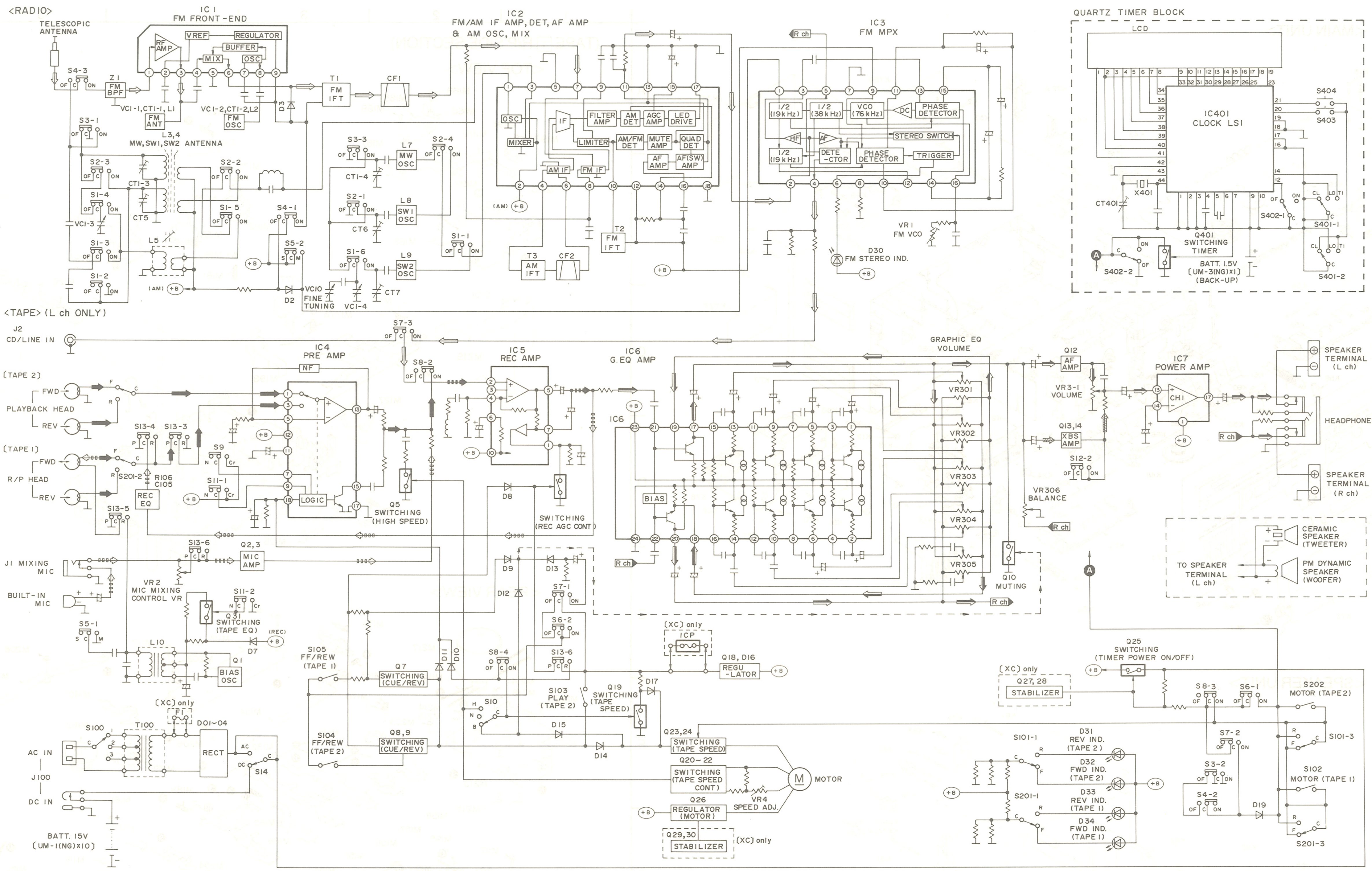

COM 2
ALM/PM
HC/AM
1b/1a
2e/1c
2a/2f
2b/2g
2c/2d
OOL/TIME
3e/ALARM
3a/3f
3b/3g
3c/3d
4e/TIMER
4a/4f
4b/4g
4c/4d
SMRK/–
COM 1
ALM
HC
AM
PM
SEC
SMRK
TIME ALARM TIMER

IC104 TERMINAL


COL/TIME
3e/ALARM
3a/3f
3b/3g
3c/3d
4e/TIMER
4a/4f
4b/4g
4c/4d
SMRK/–
COM1
2c/2d
2b/2g
2a/2f
2e/1c
1b/1a
HC/AM
ALM/PM
COM2
Vss1
O IN
O OUT
S3
S2
S1
SN
AC
VDD
CHM
SEC
AL
SL
AR
TOP VIEW
GND
T1
T2
T3
Vss2
Ø1
Ø2
ASO
BUZ
VDD
SMA
24H

Pin No.	Pin Name	Function	Description
1 2 3	T_1 T_2 T_3	Test input	——
4	V_{SS2}	LCD driver power supply input	Accepts LCD driver power supply
5 6	Ø1 Ø2	Boost capacitor input	Boost capacitor C403 input for the –1.5 V LCD driver power supply
7	ASO	Timer on/off output	High or low signal at this pin switches Q401 (switching transistor). High: One hour timer active Low: One hour timer inactive
8	Buz	Buzzer signal output	——
9	V_{DD}	Power supply input	Accepts a +1.5 V power supply.
10	SMA	Colon blink selection input	This pin causes the colon on the display to blink. High: Colon blinks (KX-CW55F) Low: Colon permanent (on)
11	24H	12/24 hour clock selection input	This pin is used to switch between 12 and 24 hour clock. High: 24 hour clock Low: 12 hour clock (RX-CW55F)
12	AR	Timer selection (on/off) input	Controls the timer (on/off). High: Timer inactive Low: Timer active (Switched by timer switch S402.)
13	SL	Sleep mode input pin	——
14	AL	Mode selection input	This pin is used to switch between clock and timer display modes: High: Timer display mode Low: Clock display mode (locked) (Switched by S401.)
15	SEC	Second mode input	——
16	CHM	Alarm select input	——
17	V_{DD}	Power supply input	Accepts +1.5 V power
18	AC	System reset input	——
19	SN	Snooze on/off input	——
20	S_1	Hour set/correction input	Applying a high to this pin (S403 closed) increments the hour counter.
21	S_2	Minute set/correction input	Applying a high to this pin (S404 closed) increments the minute counter.
22	S_3	Second zero reset	——
23 ~ 41	COM1 ~ COM2	Segment and common signal outputs	LCD driver signals
42	V_{SS1}	Ground connection	Connect to GND.
43 44	O IN O OUT	Crystal oscillator inputs	Accept a 32 kHz crystal oscillator.

BLOCK DIAGRAM

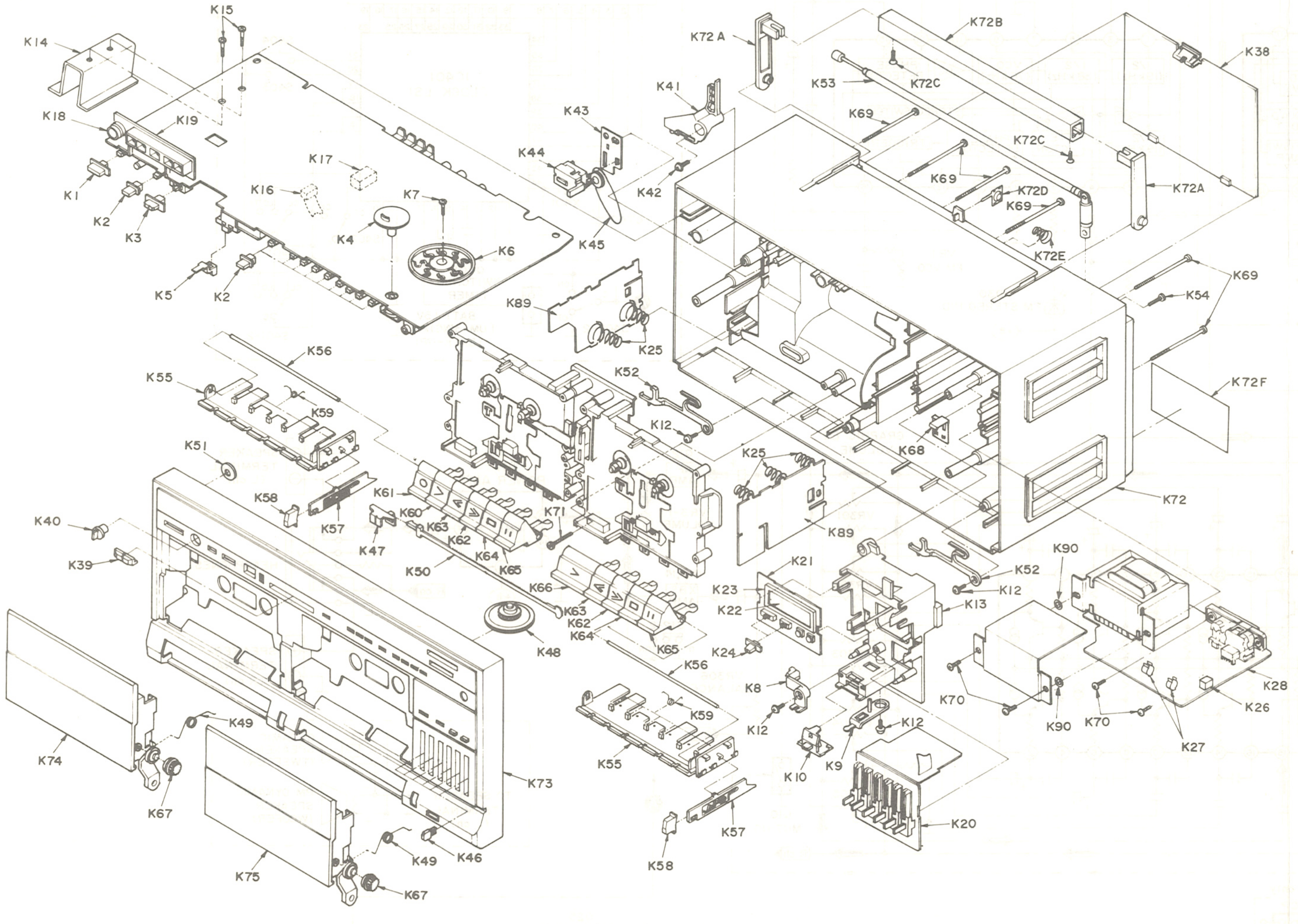

<RADIO>
TELESCOPIC ANTENNA
IC1 FM FRONT-END
RF AMP
VREF
REGULATOR
BUFFER
MIX
OSC
FM BPF
FM ANT
FM OSC
L3,4 MW,SW1,SW2 ANTENNA
IC2 FM/AM IF AMP, DET, AF AMP & AM OSC, MIX
T1 FM IFT
CF1
OSC
MIXER
IF
FILTER AMP
AM DET
AGC AMP
LED DRIVE
LIMITER
AM/FM DET
MUTE AMP
QUAD DET
AF AMP
AF(SW) AMP
AM IF
FM IF
T2 FM IFT
T3 AM IFT
CF2
MW OSC
SW1 OSC
SW2 OSC
VC10 FINE TUNING
IC3 FM MPX
1/2 (19kHz)
1/2 (38kHz)
VCO (76kHz)
DC
PHASE DETECTOR
STEREO SWITCH
DETE-CTOR
TRIGGER
VR1 FM VCO
D30 FM STEREO IND.
QUARTZ TIMER BLOCK
LCD
IC401 CLOCK LSI
X401
CT401
Q401 SWITCHING TIMER
BATT. 1.5V (UM-3(NG)×1) (BACK-UP)
S404
S403
S402-1
S402-2
S401-1
S401-2
<TAPE> (L ch ONLY)
J2 CD/LINE IN
IC4 PRE AMP
NF
LOGIC
IC5 REC AMP
IC6 G.EQ AMP
BIAS
GRAPHIC EQ VOLUME
VR301
VR302
VR303
VR304
VR305
Q12 AF AMP
VR3-1 VOLUME
Q13,14 XBS AMP
VR306 BALANCE
IC7 POWER AMP
CH1
SPEAKER TERMINAL (L ch)
HEADPHONES
SPEAKER TERMINAL (R ch)
CERAMIC SPEAKER (TWEETER)
PM DYNAMIC SPEAKER (WOOFER)
TO SPEAKER TERMINAL (L ch)
Q10 MUTING
(TAPE 2) FWD PLAYBACK HEAD REV
(TAPE 1) FWD R/P HEAD REV
REC EQ
Q5 SWITCHING (HIGH SPEED)
SWITCHING (REC AGC CONT)
J1 MIXING MIC
BUILT-IN MIC
Q2,3 MIC AMP
VR2 MIC MIXING CONTROL VR
Q31 SWITCHING (TAPE EQ)
L10
Q1 BIAS OSC
S105 FF/REW (TAPE 1)
Q7 SWITCHING (CUE/REV)
S104 FF/REW (TAPE 2)
Q8,9 SWITCHING (CUE/REV)
S103 PLAY (TAPE 2)
Q19 SWITCHING (TAPE SPEED)
(XC) only ICP
Q18, D16 REGULATOR
Q23,24 SWITCHING (TAPE SPEED)
Q20~22 SWITCHING (TAPE SPEED CONT)
Q26 REGULATOR (MOTOR)
VR4 SPEED ADJ.
MOTOR
Q29,30 STABILIZER (XC) only
S100
T100
(XC) only F1
D01~04 RECT
S14
AC IN
J100
DC IN
BATT. 15V (UM-1(NG)×10)
Q25 SWITCHING (TIMER POWER ON/OFF)
(XC) only Q27,28 STABILIZER
S202 MOTOR (TAPE 2)
S101-1
D31 REV IND. (TAPE 2)
D32 FWD IND. (TAPE 2)
D33 REV IND. (TAPE 1)
D34 FWD IND. (TAPE 1)
S201-1
S101-3
S102 MOTOR (TAPE 1)
S201-3

Notes:

1.	S1~S4:	Band select switch in "FM" position.
2.	S5-1, S5-2:	FM mode/B.P select switch in "STEREO/I" position.
3.	S6~S8:	Function select switch in "TAPE/POWER OFF" position.
4.	S9-1, S9-2:	Tape select switch in "NORMAL" position. (TAPE 2)
5.	S10:	Dubbing mode select switch in "BUILT IN MIC" position.
6.	S11-1, S11-2:	Tape select switch in "NORMAL" position. (TAPE 1)
7.	S12-1, S12-2:	XBS select switch in "ON" position.
8.	S13-1~S13-7:	Record/playback switch in playback position.
9.	S100:	Voltage select switch.
10.	S101-1~S101-3:	Delection switch in "FWD" position. (TAPE 2)
11.	S102:	Motor switch (TAPE 1)
12.	S103:	Play switch (TAPE 2)
13.	S104:	FF/REW switch (TAPE 2)
14.	S105:	FF/REW switch (TAPE 1)
15.	S201-1~S201-3:	Delection switch in "FWD" position. (TAPE 1)
16.	S202:	Motor switch (TAPE 2)
17.	S401:	Time set switch in "CLOCK" position.
18.	S402-1, S402-2:	Timer switch in "OFF" position.
19.	S403:	Time adjust switch, HOUR.
20.	S404:	Time adjust switch, MIN.
21.	VR1:	FM MPX adjustment VR.
22.	VR2:	Mic mixing control VR.
23.	VR3-1, VR3-2:	Volume control VR.
24.	VR4:	Tape speed adjustment VR.
25.	VR301~VR305:	G. EQ control VR.
26.	VR306:	Balance control VR.

CABINET PARTS LOCATION

<MAIN UNIT>



K14
K15
K18
K19
K17
K16
K1
K2
K3
K5
K2
K4
K7
K6
K43
K44
K41
K42
K45
K72 A
K72B
K53
K72C
K69
K72C
K69
K72D
K69
K72E
K72A
K38
K69
K54
K72F
K89
K25
K56
K55
K59
K52
K12
K51
K58
K57
K61
K60
K63
K62
K64
K65
K71
K47
K50
K66
K63
K62
K64
K65
K25
K68
K72
K89
K21
K23
K22
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K12
K13
K90
K40
K39
K48
K56
K8
K12
K10
K9
K12
K59
K55
K57
K58
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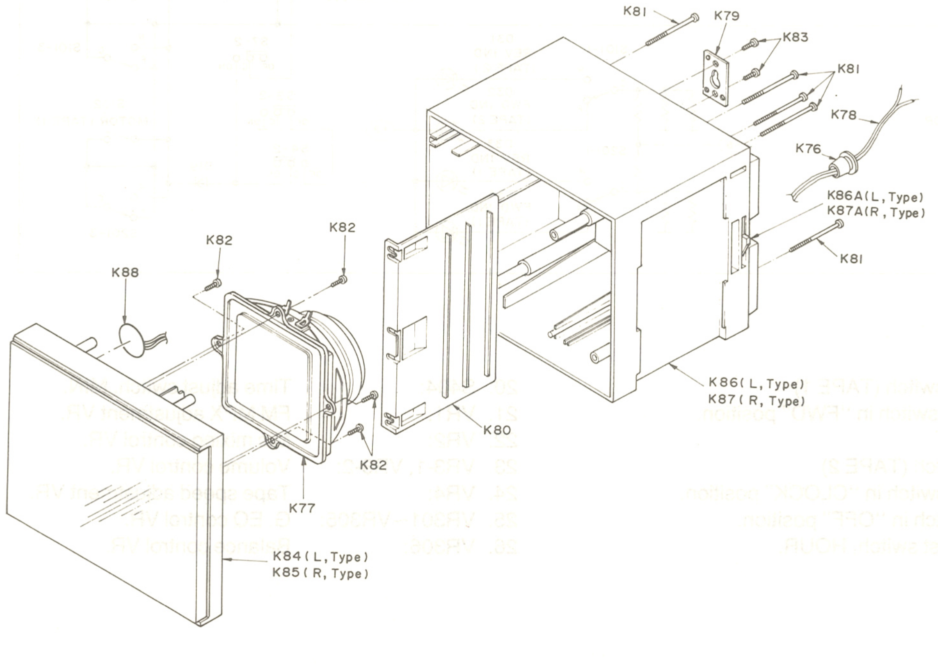
K70
K27
K28
K26
K20
K49
K74
K67
K75
K49
K46
K67
K73

<SPEAKER UNIT>



K81
K79
K83
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K78
K76
K86A(L, Type)
K87A(R, Type)
K81
K82
K82
K88
K86(L, Type)
K87(R, Type)
K80
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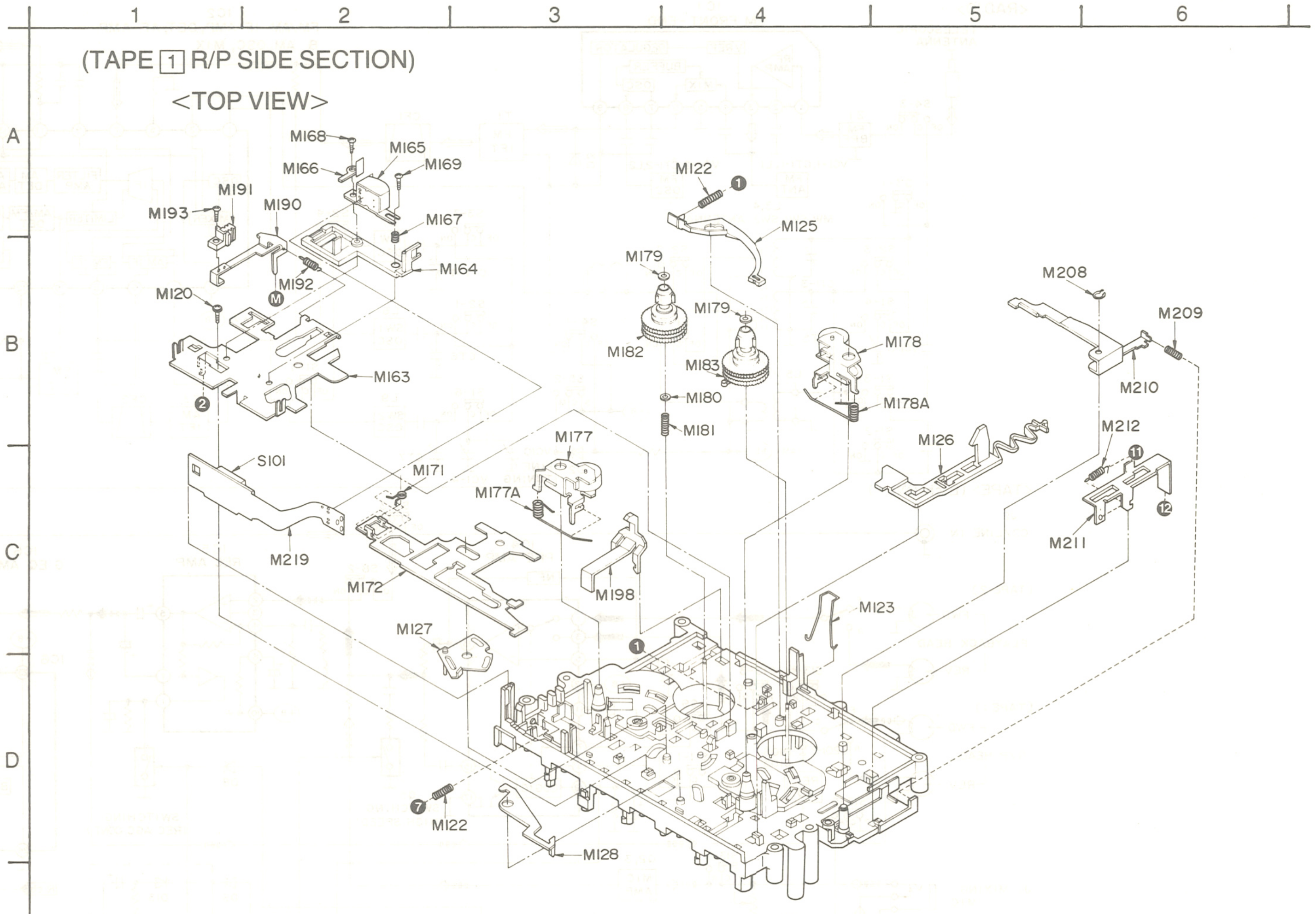
K77
K84(L, Type)
K85(R, Type)

MECHANISM PARTS LOCATION

(TAPE 1 R/P SIDE SECTION)

<TOP VIEW>



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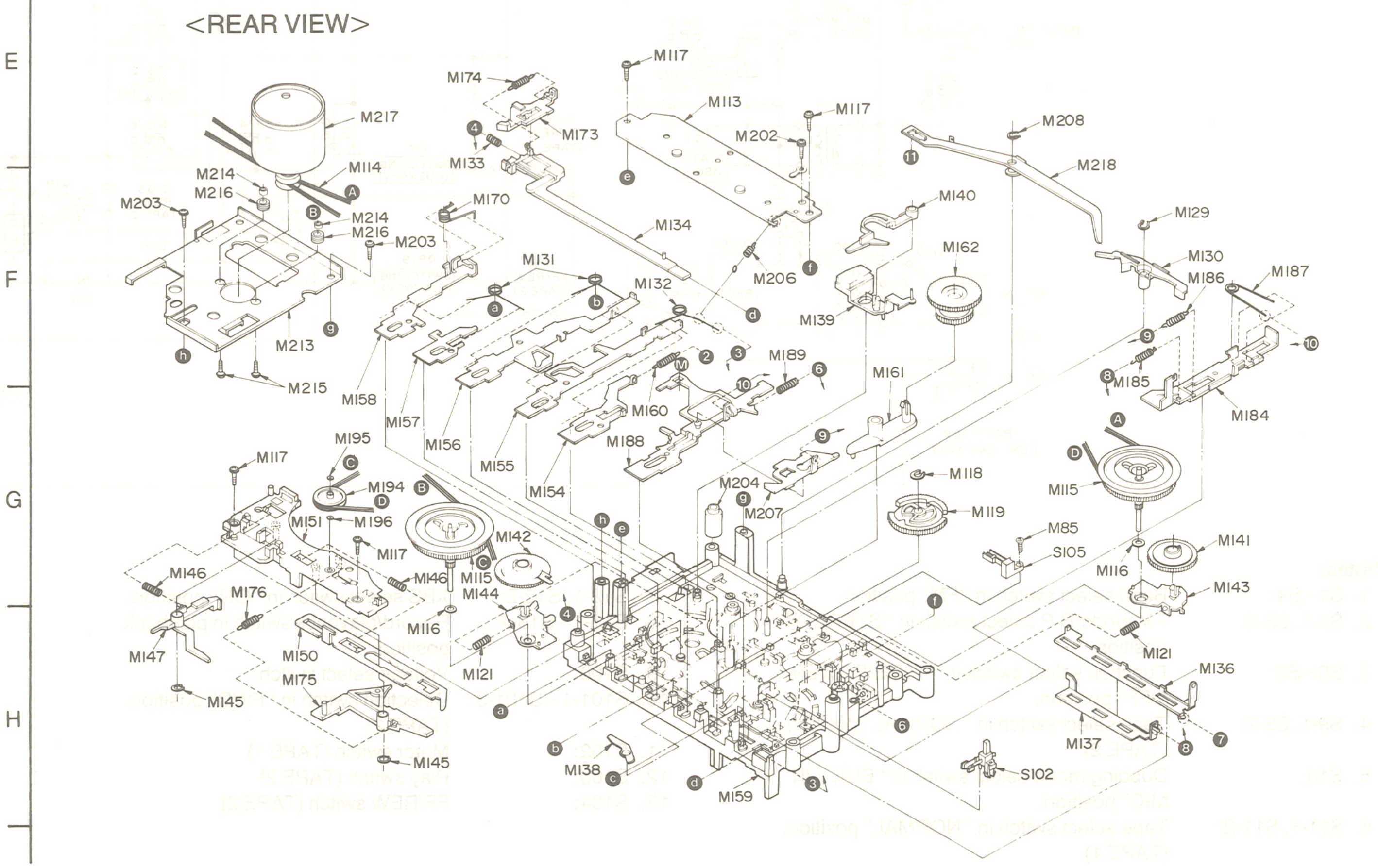
<REAR VIEW>



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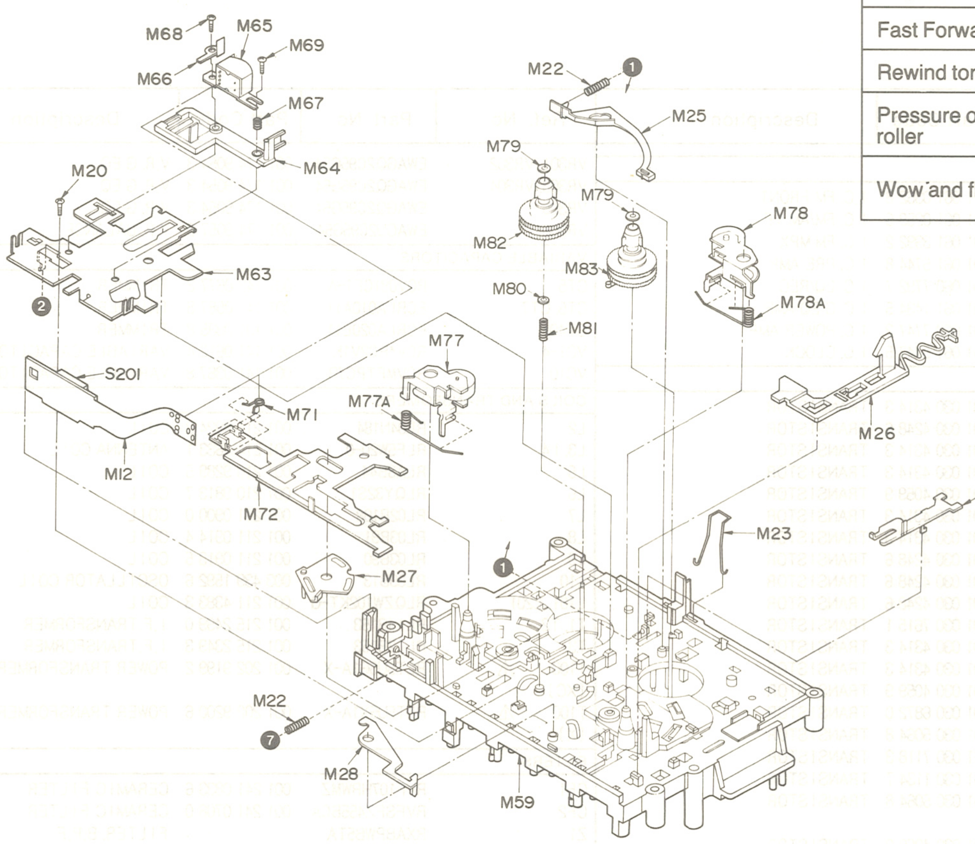
MECHANISM PARTS LOCATION

(TAPE 2 PLAY SIDE SECTION)

Specifications

Playback torque	30^{+15}_{-5} g•cm
Fast Forward torque	80±20 g•cm
Rewind torque	80±20 g•cm
Pressure of pressure roller	170±40 g
Wow and flutter	Less than 0.35% (WRMS)

<TOP VIEW>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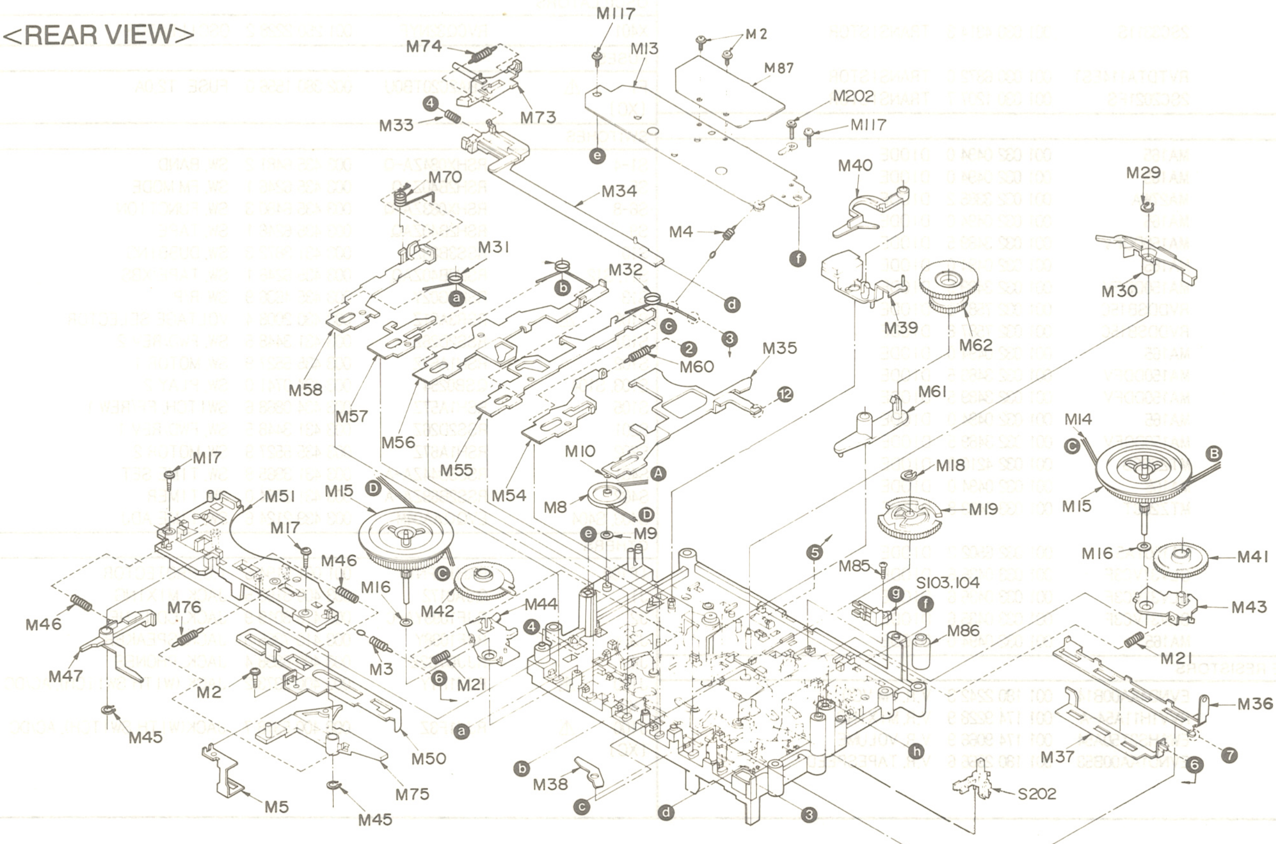
<REAR VIEW>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Notes:

1. Important safety notice
   Components identified by ⚠ mark have special characteristics important for safety.
   When replacing any of these components, use only manufacturer's specified parts.
2. The letter in square brackets in the Ref. No. column indicates the shipping destination.
   [X]...For Asia, Latin America, Middle East and Africa areas.
   [XC]...For Saudi Arabia.

Ref. No.	Part No.	Part Code	Description
INTEGRATED CIRCUITS			
IC1	AN7205	001 061 0362 8	I.C. FM FRONT
IC2	BA4236L	001 061 0259 6	I.C. FM/AM IF
IC3	BA1332L	001 061 3992 2	I.C. FM MPX
IC4	BA3416L	001 061 5744 8	I.C. PRE AMP
IC5	M51160AL	001 060 7792 7	I.C. EQ/REC
IC6	BA3822LS	001 061 1434 5	I.C. G.EQ AMP
IC7	LA4108R	001 060 7747 2	I.C. POWER AMP
IC401	TC8215UF-US	001 061 5747 5	I.C. CLOCK
TRANSISTORS			
Q1	2SC3311S	001 030 4314 3	TRANSISTOR
Q2, Q3	2SC1740SLNST	001 030 4248 6	TRANSISTOR
Q4, Q5	2SC3311S	001 030 4314 3	TRANSISTOR
Q6, Q7	2SC3311S	001 030 4314 3	TRANSISTOR
Q8	2SA1309R	001 030 4059 9	TRANSISTOR
Q9, Q10	2SC3311S	001 030 4314 3	TRANSISTOR
Q11	2SC3311S	001 030 4314 3	TRANSISTOR
Q12, Q13	2SC1740SLNST	001 030 4248 6	TRANSISTOR
Q14, Q15	2SC1740SLNST	001 030 4248 6	TRANSISTOR
Q16, Q17	2SC1740SLNST	001 030 4248 6	TRANSISTOR
Q18	2SD1776Q	001 030 7615 1	TRANSISTOR
Q19, Q20	2SC3311S	001 030 4314 3	TRANSISTOR
Q21	2SC3311S	001 030 4314 3	TRANSISTOR
Q22	2SA1309R	001 030 4059 9	TRANSISTOR
Q23	RVTDTA114EST	001 030 6872 0	TRANSISTOR
Q24	2SD1302R	001 030 5064 8	TRANSISTOR
Q25	2SB953P	001 030 7118 3	TRANSISTOR
Q26	2SC1846R	001 030 1134 7	TRANSISTOR
Q27 (XC)	2SD1302R	001 030 5064 8	TRANSISTOR
Q28, Q29 (XC)	2SA1309R	001 030 4059 9	TRANSISTOR
Q30 (XC)	2SC3311S	001 030 4314 3	TRANSISTOR
Q31	RVTDTA114EST	001 030 6872 0	TRANSISTOR
Q401	2SC2021FS	001 030 1207 7	TRANSISTOR
DIODES			
D1, D2	MA165	001 032 0494 0	DIODE
D3	MA165	001 032 0494 0	DIODE
D5	MA27WA	001 032 3385 2	DIODE
D6	MA165	001 032 0494 0	DIODE
D7	MA150DDFV	001 032 3489 5	DIODE
D8	MA165	001 032 0494 0	DIODE
D9	MA150DDFV	001 032 3489 5	DIODE
D01, D02	RVDDSB15C	001 032 7587 8	DIODE
D03, D04	RVDDSB15C	001 032 7587 8	DIODE
D10	MA165	001 032 0494 0	DIODE
D11, D12	MA150DDFV	001 032 3489 5	DIODE
D13	MA150DDFV	001 032 3489 5	DIODE
D14	MA165	001 032 0494 0	DIODE
D15	MA150DDFV	001 032 3489 5	DIODE
D16	MTZ8R2B	001 032 4210 0	DIODE
D17	MA165	001 032 0494 0	DIODE
D18 (XC)	MTZ20CT	001 033 0433 8	DIODE
D19	MA150TA5	001 032 6502 3	DIODE
D30, D31	SLV31VC3F	001 033 0435 6	DIODE
D32, D33	SLV31VC3F	001 033 0435 6	DIODE
D34	SLV31VC3F	001 033 0435 6	DIODE
D35, D36	MA165	001 032 0494 0	DIODE
VARIABLE RESISTORS			
VR1	EVND4AA00B14	001 180 2242 3	V.R. FM VCO
VR2	RVV1H11A54-A	001 174 9228 9	V.R. MIXING
VR3	EWAHS2T50A54	001 174 9066 9	V.R. VOLUME
VR4	EVND1AA00B53	001 180 2566 6	V.R. TAPESPEED
VR301, VR302	EWAGQ2C95G54	001 174 9054 3	V.R. G.EQ
VR303, VR304	EWAGQ2C95G54	001 174 9054 3	V.R. G.EQ
VR305	EWAGQ2C95G54	001 174 9054 3	V.R. G.EQ
VR306	EWAGU2C95G54	001 174 9057 0	V.R. BALANCE
VARIABLE CAPACITORS			
CT5	RCV081CF1-A	001 142 0677 2	TRIMMER
CT6, CT7	ECRLA010A11	001 141 0587 8	TRIMMER
CT401	ECRLA020E11	001 191 0935 8	TRIMMER
VC1-4	RCV4RC2V1K	001 141 0612 4	VARIABLE CAPACITOR
VC10	RCVMFTPC7B	001 141 0367 8	VARIABLE CAPACITOR
COILS AND TRANSFOMERS			
L2	RL04N184	001 211 0924 2	COIL
L3, L4	RLF5W20-0	001 214 1633 1	ANTENNA COIL
L5	RLA3B44	001 210 9289 5	COIL
L6	RLQY32S1	001 210 9813 7	COIL
L7	RL02B108	001 211 0900 0	COIL
L8	RL03B91	001 211 0914 4	COIL
L9	RL03B90	001 211 0913 5	COIL
L10	RL09B13	003 439 1592 6	OSCILLATOR COIL
L101, L201	RLQZW102KT-G	001 211 4383 3	COIL
T1, T2	RLI4B153	001 215 2499 0	I.F.TRANSFORMER
T3	RLI2B153	001 215 2349 3	I.F.TRANSFORMER
T100 ⚠ (XC)	RLT5U5G1A-X	001 202 9199 2	POWER TRANSFORMER
T100 ⚠ (X)	RLT5U5X1A-X	001 202 9200 6	POWER TRANSFORMER
FILTERS			
CF1	RVF107HRWMZ	001 241 0833 6	CERAMIC FILTER
CF2	RVFSFZ455BCA	001 241 0708 0	CERAMIC FILTER
Z1	RXABPWB5TA		FILTER, B.P.F
OSCILLATORS			
X401	RVCQ32NYF	001 250 2228 2	OSCILLATOR
FUSES			
F1 ⚠ (XC)	XBA2C20TB0U	002 380 1556 0	FUSE T2.0A
SWITCHES			
S1-4	RSHX084ZA-Q	003 435 6481 2	SW. BAND
S5	RSH2B40ZAQ	003 435 6246 1	SW. FM MODE
S6-8	RSHX083ZA-Q	003 435 6480 3	SW. FUNCTION
S9	RSH2B40ZAQ	003 435 6246 1	SW. TAPE
S10	RSS3B38Z	003 431 3872 3	SW. DUBBING
S11, S12	RSH2B40ZAQ	003 435 6246 1	SW. TAPE/XBS
S13	RSH2G02Y	003 435 4636 9	SW. R/P
S100 ⚠	RSR3A01Z	003 430 2008 4	VOLTAGE SELECTOR
S101	RSS2D26Z	003 431 3448 5	SW. FWD/REV 2
S102	RSH1A67Z	003 435 5527 9	SW. MOTOR 1
S103, S104	QSB0254	003 434 0741 0	SW. PLAY 2
S105	RSH1A57Z	003 434 0868 6	SWITCH, FF/REW 1
S201	RSS2D26Z	003 431 3448 5	SW. FWD/REV 1
S202	RSH1A67Z	003 435 5527 9	SW. MOTOR 2
S401	RSS3B44ZA-A	003 431 3965 9	SW. TIME SET
S402	RSS2B69ZA-A	003 431 3964 0	SW. TIMER
S403, S404	EVQQAA04M	003 439 2124 6	SW. TIME ADJ
OTHERS			
IP100	RAHICPN10	001 061 5194 6	I.C.PROTECTOR
J1	QJA0172	003 400 5150 5	JACK, MIXING
J2	RJF1099YA-C	003 410 8019 9	JACK, CD/LINE
J3	RJF1098Y	003 410 7365 8	JACK, SPEAKER
J4	RJJD7S2Z	003 400 6898 4	JACK, PHONES
J100 ⚠ (X)	RJJ1F1Y	003 400 5373 2	JACK (WITH SWITCH), AC/DC
J100 ⚠ (XC)	RJJ1F3Z	003 400 5378 7	JACK(WITH SWITCH), AC/DC

■ MECHANISM PARTS LIST

•See page 20, 21 regarding the illustrations.

Ref. No.	Part No.	Part Code	Description
TAPE DECK 1			
MECHANICAL PARTS			
M113	1MQAK5165ZD	015 652 1469 2	FLYWHEEL BASE
M114	RDVK31ZA	015 754 0363 8	BELT
M115	1DWAKFW47ZA	015 756 0456 4	FLYWHEEL ASS'Y
M116	QBK40047	005 513 2955 4	WASHER
M117	XTW2+10S	005 501 2295 3	SCREW
M118	XUEV3VW	005 512 0246 9	C RING
M119	RNGK6ZB	015 745 1115 9	GEAR
M120	XTW2+5S	005 501 2296 2	SCREW
M121	RUQK7Z	015 726 2834 8	SPRING
M122	RUQK9Z	015 726 2833 9	SPRING
M123	RUWK12Z	015 728 1489 9	SPRING
M125	RNLK8Z	015 718 4271 9	LEVER
M126	RNLK9Z	015 718 4270 0	LEVER
M127	7NLAK5165Z	015 718 4282 6	LEVER ASS'Y
M128	RNLK25Z	015 718 4269 3	LEVER
M129	XUEV25VW	005 512 0283 4	C RING
M130	RNLK11YA	015 718 4618 2	LEVER
M131	RUWK13Z	015 728 1487 1	SPRING
M132	RUWK74ZA	015 727 1011 8	SPRING
M133	RUQK10Z	015 726 2831 1	SPRING
M134	RNRK3ZB	015 712 2429 3	ROD
M136	RNLK26YA	015 718 4620 8	LEVER
M137	RNLK30Z	015 718 4268 4	LEVER
M138	RNLK39ZA	015 718 4809 7	LEVER
M139	RNLK6Z	015 718 4266 6	LEVER
M140	RNLK7ZA-1	015 718 4634 2	LEVER
M141	RNGK5Z	015 742 0271 7	IDLER
M142	1NGAK5165Z	015 742 0272 6	IDLER ASS'Y
M143	RNLK5Z	015 718 4263 9	LEVER
M144	RNLK4Z	015 718 4262 0	LEVER
M145	XUEV3VW	005 512 0246 9	C RING
M146	RUQK8Z	015 726 2839 3	SPRING
M147	RNLK14Z	015 718 4281 7	LEVER
M150	RNLK27YA	015 718 4538 1	LEVER
M151	1UEAKCW55ZA	015 632 6733 7	ANGLE
M154	RNRK63ZA	015 712 2472 0	ROD
M155	RNRK66ZA	015 712 2466 8	ROD
M156	RNRK67ZA	015 712 2467 7	ROD
M157	RNRK68ZA	015 712 2468 6	ROD
M158	RNRK69ZA	015 712 2470 2	ROD
M159	4UAAKFW47YA	015 630 2661 2	CHASSIS ASSY
M160	RUDK2Z	015 726 2835 7	SPRING
M161	RNLK3Z	015 718 4277 3	LEVER
M162	NGAKFW47ZB	015 745 1180 0	GEAR
M163	RUAK12YB	015 630 2409 2	CHASSIS
M164	RUEK1YA	015 643 1083 7	SPACER
M165	RJH4C14YZ	001 270 1177 8	R/P HEAD
M166	RULK8ZB	015 632 6639 4	EARTH PLATE
M167	QBA51322	015 726 0529 2	SPRING
M168	XSB2D6	005 500 3465 4	SCREW
M169	XSB2D7	005 500 1001 0	SCREW
M170	RUWK17Z	015 728 1491 5	SPRING
M171	RUWK11ZB	015 726 3031 1	SPRING
M172	RNLK28YA	015 718 4621 7	LEVER
M173	RNLK84ZA	015 718 4629 9	LEVER
M174	QBT2089	015 726 2837 5	SPRING
M175	RNLK12Z	015 718 4278 2	LEVER
M176	RUDK4ZA	015 726 2838 4	SPRING
M177	6NLAK5165Z	015 740 3214 4	PINCH ROLLER ASS'Y
M177A	RUWK15Z	015 728 1494 2	SPRING
M178	5NLAK5165Z	015 740 3213 5	PINCH ROLLER ASS'Y
M178A	RUWK18Z	015 728 1493 3	SPRING
M179	QBK92008	005 513 0693 5	WASHER
M180	RNWK208Z	005 513 4010 6	WASHER
M181	RUQK17ZD	015 726 3033 9	SPRING
M182	1DMAK5165Z	015 765 0539 1	REEL TABLE ASS'Y
M183	2DMAK5165Z	015 765 0540 8	REEL TABLE ASS'Y
M184	RNLK40Z	015 718 4364 5	LEVER
M185	RUDK3Z	015 726 2836 6	SPRING
M186	RUDK8Z	015 727 0916 0	SPRING
M187	RUWK79ZA	015 727 1012 7	SPRING
M188	4NRAKCW55ZA	015 712 2471 1	ROD
M189	RUQK11Z	015 726 2832 0	SPRING
M190	RNLK18Z	015 718 4279 1	LEVER
M191	RJH2C04XZ	001 270 1115 2	HEAD
M192	QBT1989	015 726 1748 9	SPRING
M193	XQN17+C6	005 500 4610 9	SCREW
M194	QDP1948-3	015 741 3498 3	PULLEY
M195	QBW2137	005 513 3144 7	WASHER
M196	QBK92030	005 513 3065 5	WASHER
M198	RNLK10Z	015 718 4273 7	LEVER
M202	XTW2+4L	005 501 4711 0	SCREW
M203	XTW26+10S	005 501 1336 5	SCREW
M204	RNBK4ZA	015 653 1163 2	RUBBER SPACER
M207	RNLK41Z	015 718 4326 1	LEVER
M208	XUEV4VW		C RING
M209	RUQK34ZA	015 726 3032 0	SPRING
M210	RNLK74ZA	015 718 4622 6	LEVER
M211	RNLK75ZB	015 718 4789 4	LEVER
M212	QBT2092	015 726 1877 1	SPRING
M213	RULK20ZA	015 632 6641 0	ANGLE
M214	QMN40027	015 713 0987 1	PIPE
M215	XYN26+B6	005 503 0552 3	SCREW
M216	QBG1539	015 653 0319 4	RUBBER
M217	1JQAKCW55ZA	002 310 2619 0	DC MOTOR
M218	RNLK77ZA	015 718 4625 3	LEVER
M219	RUPK38Z	003 482 6685 7	F.P.C
TAPE DECK 2			
MECHANICAL PARTS			
M2	XTW2+4L	005 501 4711 0	SCREW
M3	RUDK31ZA	015 727 0965 1	SPRING
M4	RUDK5Z	015 727 0982 0	SPRING
M5	RNLK79ZA	015 718 4627 1	LEVER
M8	RDRK20ZA	015 740 3242 0	PULLEY
M9	QBW2137	005 513 3144 7	WASHER
M10	QBK92030	005 513 3065 5	WASHER
M12	RUPK38Z	003 482 6685 7	F.P.C
M13	1MQAK5165ZD	015 652 1469 2	FLYWHEEL BASE
M14	RDVK20ZA	015 754 0338 9	BELT
M15	1DWAKFW47ZA	015 756 0456 4	FLYWHEEL ASS'Y
M16	QBK40047	005 513 2955 4	WASHER
M17	XTW2+10S	005 501 2295 3	SCREW
M18	XUEV3VW	005 512 0246 9	C RING
M19	RNGK6ZB	015 745 1115 9	GEAR
M20	XTW2+5S	005 501 2296 2	SCREW
M21	RUQK7Z	015 726 2834 8	SPRING
M22	RUQK9Z	015 726 2833 9	SPRING
M23	RUWK12Z	015 728 1489 9	SPRING
M24	RNLK80ZA	015 718 4628 0	LEVER
M25	RNLK8Z	015 718 4271 9	LEVER
M26	RNLK9Z	015 718 4270 0	LEVER
M27	7NLAK5165Z	015 718 4282 6	LEVER ASS'Y
M28	RNLK25Z	015 718 4269 3	LEVER
M29	XUEV25VW	005 512 0283 4	C RING
M30	RNLK11YA	015 718 4618 2	LEVER
M31	RUWK13Z	015 728 1487 1	SPRING
M32	RUWK74ZA	015 727 1011 8	SPRING
M33	RUQK10Z	015 726 2831 1	SPRING
M34	RNRK3ZB	015 712 2429 3	ROD
M35	RNLK76ZA	015 718 4624 4	LEVER
M36	RNLK26YB	015 718 4806 0	LEVER
M37	RNLK30Z	015 718 4268 4	LEVER
M38	RNLK39ZA	015 718 4809 7	LEVER
M39	RNLK6Z	015 718 4266 6	LEVER
M40	RNLK7ZA-1	015 718 4634 2	LEVER
M41	RNGK5Z	015 742 0271 7	IDLER
M42	1NGAK5165Z	015 742 0272 6	IDLER ASS'Y
M43	RNLK5Z	015 718 4263 9	LEVER
M44	RNLK4Z	015 718 4262 0	LEVER
M45	XUEV3VW	005 512 0246 9	C RING
M46	RUQK8Z	015 726 2839 3	SPRING
M47	RNLK14Z	015 718 4281 7	LEVER
M50	RNLK78ZB	015 718 4790 1	LEVER
M51	RUEK3YB	015 632 6643 8	PLATE
M54	RNRK65ZA	015 712 2469 5	ROD
M55	RNRK66ZA	015 712 2466 8	ROD
M56	RNRK67ZA	015 712 2467 7	ROD
M57	RNRK68ZA	015 712 2468 6	ROD
M58	RNRK69ZA	015 712 2470 2	ROD
M59	2UAAKFW47YA	015 630 2677 4	CHASSIS ASS'Y

Ref. No.	Part No.	Part Code	Description
M60	RUDK2Z	015 726 2835 7	SPRING
M61	RNLK3Z	015 718 4277 3	LEVER
M62	NGAKFW47ZB	015 745 1180 0	GEAR
M63	RUAK12YB	015 630 2409 2	CHASSIS
M64	RUEK1YA	015 643 1083 7	SPACER
M65	RJH4C51XZAM	001 270 1791 2	HEAD
M66	RULK8ZB	015 632 6639 4	EARTH PLATE
M67	QBA51322	015 726 0529 2	SPRING
M68	XSB2D6	005 500 3465 4	SCREW
M69	XSB2D7	005 500 1001 0	SCREW
M70	RUWK17Z	015 728 1491 5	SPRING
M71	RUWK11ZB	015 726 3031 1	SPRING
M72	RNLK28YA	015 718 4621 7	LEVER
M73	RNLK13ZB	015 718 4619 1	LEVER
M74	QBT2089	015 726 2837 5	SPRING
M75	RNLK12Z	015 718 4278 2	LEVER
M76	RUDK4ZA	015 726 2838 4	SPRING
M77	6NLAK5165Z	015 740 3214 4	PINCH ROLLER ASS'Y
M77A	RUWK15Z	015 728 1494 2	SPRING
M78	5NLAK5165Z	015 740 3213 5	PINCH ROLLER ASS'Y
M78A	RUWK18Z	015 728 1493 3	SPRING
M79	QBK92008	005 513 0693 5	WASHER
M80	RNWK208Z	005 513 4010 6	WASHER
M81	RUQK17ZD	015 726 3033 9	SPRING
M82	1DMAK5165Z	015 765 0539 1	REEL TABLE ASS'Y
M83	2DMAK5165Z	015 765 0540 8	REEL TABLE ASS'Y
M85	XTN2+6J	005 501 1524 3	SCREW
M86	RNBK4ZA	015 653 1163 2	RUBBER SPACER
M87	RUPK109ZA	015 630 2680 9	P.C.B

CABINET PARTS LIST

•See page 19 regarding the illustrations.

Ref. No.	Part No.	Part Code	Description
CABINET AND CHASSIS			
K1	RBCK159ZA-0	015 702 4963 4	BUTTON, XBS
K2	RBCK160ZA-0	015 702 4964 3	BUTTON, SELECT
K3	RBDK37ZA-0	015 700 4770 1	KNOB, DUBBING
K4	RBTK14ZA-0	015 700 4773 8	KNOB, FUIN TUN
K5	RHRK529ZA	015 652 1534 0	HOLDER
K6	RDGK5615ZA	015 745 1193 5	GEAR
K7	XSN26+W6	005 500 1364 6	SCREW
K8	RNLK89ZA	015 718 4808 8	LEVER
K9	RNLK90ZA	015 718 4807 9	LEVER
K10	RBDK39ZA-0	015 700 4774 7	KNOB, REVERSE
K12	XTW3+8Q	005 501 1357 0	SCREW
K13	RUAK38ZA	015 630 2676 5	CHASSIS
K14	RMYK2ZA	015 610 0022 7	OPTICAL SHIELD
K15	XTV3+12F	005 501 0837 3	SCREW
K16	RJSK7T1ZA	003 400 7770 5	CONNECTOR
K17	RJSK5T1ZA	003 400 7691 3	SOCKET
K18	RJM165Z	001 275 0578 4	MICROPHONE
K19	RHRK528ZA	015 652 1535 9	HOLDER
K20	RUPK108ZA	015 630 2678 3	PC.BOARD W/COMPONENT
K21	RUPK106ZA	015 630 2679 2	PC.BOARD W/COMPONENT
K22	EDD052C84A2P	001 080 0404 8	DISPLAY
K23	RGEK31ZA	015 846 3257 6	ORNAMENT
K24	RBDK40ZA-0	015 700 4772 9	KNOB, CLOCK
K25	RJC511Z	003 413 1086 1	BATTERY TERMINAL
K26	RJS12T1Z	003 400 7305 6	SOCKET(12P)
K27 ⚠	QTF1054	003 415 0168 4	FUSE HOLDER
(XC)			
K28	RUPK109ZA	015 630 2680 9	P.C.B
K38	RKKK16ZA-0	015 820 8883 8	BATTERY COVER ASS'Y
K39	RBDK38ZA-0	015 700 4771 0	KNOB, VOLUME
K40	RBNK15ZA-0	015 700 4769 4	KNOB, MIXING
K41	RNLK37Z	015 718 4381 4	R/P LEVER
K42	XTW3+10Q	005 501 0994 1	SCREW
K43	RMUK1ZA	015 650 0152 4	BRACKET
K44	RSE244ZA	015 892 0372 6	TAPE COUNTER
K45	RDVK28ZA	015 754 0365 6	ANGULAR BELT
K46	RBD248YAA-0	015 700 4697 3	KNOB, G.EQ
K47	RDPK519ZA-0	015 710 0777 4	POINTER
K48	RBT262Z	015 700 4086 4	KNOB, TUNING(BK)
K49	RUWK61ZA	015 727 1018 1	LEAF SPRING
K50	RDEK1ZA	015 652 1533 1	HOLDER
K51	RHG720Z	015 653 0904 3	RUBBER
K52	RNLK88ZA	015 718 4811 3	LEVER
K53	XEARR225CAY	002 390 1541 1	TELESCOPIC ANTENNA
K54	XSN3+12FY	005 500 6074 3	SCREW
K55	RUAK39ZA	015 632 6736 4	ANGLE
K56	RDFK3004Z	015 713 2010 1	SHAFT
K57	RNLK87ZA	015 718 4810 4	LEVER
K58	RBCK161ZA-0	015 702 4965 2	BUTTON, DIRECTION
K59	RUWK60ZA	015 727 1017 2	LEAF SPRING
K60	RBCK184ZA-0	015 702 4969 8	BUTTON, PLAY (1)
K61	RBCK183ZA-0	015 702 4966 1	BUTTON, REC (1)
K62	RBCK186ZA-0	015 702 4967 0	BUTTON, FF (1,2)
K63	RBCK185ZA-0	015 702 4968 9	BUTTON, REW (1,2)
K64	RBCK187ZA-0	015 702 4970 5	BUTTON, STOP(1,2)
K65	RBCK188ZA-0	015 702 4971 4	BUTTON, PAUSE 1,2
K66	RBCK189ZA-0	015 702 4972 3	BUTTON, PLAY(1,2)
K67	RDG5700Z	015 745 0678 3	GEAR
K68	RJTK307ZA	003 410 8311 8	TERMINAL PLATE
K69	XTN3+60G	005 501 2633 5	SCREW
K70	XTV3+12G	005 501 0844 4	SCREW
K71	XTN3+25G	005 501 1265 3	TAPPING SCREW
K72	RYF1XCW55FX	015 802 3285 6	REAR CABINET ASS'Y
(X)			
K72	RYF1XCW55FXC	015 802 3284 7	REAR CABINET ASS'Y
(XC)			
K72A	RKX361Z	015 826 1110 4	ARM, HANDLE
K72B	RKXK14ZA-0	015 826 1256 7	HANDLE
K72C	XTS3+10GZ	005 501 2257 9	TAPPING SCREW
K72D	RJC717A	003 413 0332 0	BATTERY SPRING
K72E	RJCK70002ZA	003 413 1630 9	BATTERY TERMINAL
K72F	RGTK63VA	015 861 2203 7	NAME PLATE
(XC)			
K72F	RGTK63ZA	015 861 2202 8	NAME PLATE
(X)			
K73	RYM1XCW55FX	015 800 6805 2	FRONT CABINET ASS'Y
K74	RYQ1XCW55FX	015 820 8885 6	CASSETTE LID ASS'Y
K75	RYQ2XCW55FX	015 820 8884 7	CASSETTE LID ASS'Y
K76	RHG3011Z	015 653 0702 1	BUSHING, SP.CORD
K77	EAS10S05D	001 260 3871 1	SPEAKER
K78	RJEK1Z	003 492 6315 4	SPEAKER CORD
K79	RUL661Z	015 632 6008 9	BRACKET
K80	RMCK29ZA	015 601 1144 5	SHIELD PLATE
K81	XTN3+50G	005 501 1854 8	SCREW
K82	XTV3+8G	005 501 0913 8	SCREW
K83	XTN3+8G	005 501 0457 1	TAPPING SCREW
K84	RYM2XCW55FX	015 800 6806 1	FRONT CABINET ASS'Y, SP L
K85	RYM3XCW55FX	015 800 6807 0	FRONT CABINET ASS'Y, SP R
K86	RYF2XCW55FX	015 802 3286 5	REAR CABINET ASS'Y, SP L
K86A	RGE76Y	015 632 4918 8	STOPPER(L)
K87	RYF3XCW55FX	015 802 3287 4	REAR CABINET ASS'Y, SP R
K87A	RGE76X	015 846 1432 7	STOPPER(R)
K88	EFBS77D41	001 260 3803 3	SPEAKER
K89	RUPK109ZA		P.C.B
K90	XWG3D10		WASHER

ACCESSORY AND PACKING PARTS LIST

Ref. No.	Part No.	Part Code	Description
PACKINGS			
P1	RPNK9017ZA	015 977 3517 5	CUSHION
P2	RPEK146ZA	015 979 0444 7	SHEET
P3	RPKK1090ZA	015 972 2179 2	GIFT BOX
ACCESSORIES			
A1 ⚠	QFC1081	003 490 0913 2	AC CORD
(X)			
A1 ⚠	RJA103Z	003 490 4815 7	AC CORD
(XC)			
A2 ⚠	RJP120ZDS		AC PLUG ADAPTOR
A3	RJN48Z	015 912 0220 2	TAPE
A4	RQXK4076ZA	015 983 5109 3	INSTRUCTION BOOK

Ref. No.	Part No.	Part Code
R344	ERD25FJ103	001 152 0216 1
R345	ERD16TJ562T	001 152 2934 0
R346	ERD16TJ472T	001 152 3990 8
(X)		
R347	ERD25FJ391	001 152 0299 2
(X)		
R347	ERD25FJ472	001 152 0311 3
(XC)		
R348, R349	ERD16TJ104T	001 152 2739 1
R350	ERD16TJ104T	001 152 2739 1
R351	ERD16TJ222T	001 152 2928 8
R352	ERD16TJ183T	001 152 6606 7
R353	ERD16TJ273T	001 152 6607 6
R354	ERD16TJ152T	001 152 3971 1
R355	ERD16TJ102	001 152 2919 9
R356	ERD25TJ101	001 152 2295 8
(X)		
R356	ERD25TJ221	001 152 1860 5
(XC)		
R357	ERD16TJ103T	001 152 2920 6
R358	ERD16TJ104T	001 152 2739 1
(XC)		
R359	ERD16TJ152T	001 152 3971 1
(XC)		
R360	ERD16TJ103T	001 152 2920 6
R361, R362	ERD16TJ103T	001 152 2920 6
(XC)		
R363	ERD16TJ224T	001 152 3978 4
(XC)		
R364	ERD25FJ391	001 152 0299 2
R365	ERD16TJ152T	001 152 3971 1
R401	ERD25TJ103	001 152 1820 3
R500, R501	ERD25TJ101	001 152 2295 8
CAPACITORS		
C1	ECBT1H220J	001 103 0092 0
C2	RCBS1H5R6KY	001 103 5633 3
C3	RCBS1H220JY	001 103 5602 0
C4	RCBS1H3R9KY	001 103 7103 6
C5, C6	RCBS1H102KB	001 103 5571 0
C7	RCBS1C103NYY	001 103 5545 2
C8	RCBS1H4R7KY	001 103 5625 3
C9	RCBS1H200JC	001 103 5599 8
C01, C02	ECKD1H103ZF	001 103 1449 7
C03, C04	ECKD1H103ZF	001 103 1449 7
C10	RCBS1H100JY	001 103 5567 6
C11	RCBS1H200JC	001 103 5599 8
C12	RCBS1H180JY	001 103 7096 8
C13	RCBS1C103NYY	001 103 5545 2
C14	ECBT1H6R8K	
C15	RCBS1H120JY	001 103 5579 2
C16	RCBS1H5R6KC	001 103 5631 5
C17	RCBS1H100JY	001 103 5567 6
C18	ECQP1361JZ	001 106 3508 0
C19	ECQP1152JZ	001 106 3504 4
C20	ECQP1472JZ	001 106 3511 5
C21	RCBS1E223ZF	001 103 7093 1
C22	RCBS1H470JY	001 103 7105 4
C23, C24	ECFZ1C223MDY	001 108 1076 1
C25	ECBA1H221KBY	001 103 0038 6
C26	RCBS1C103NYY	001 103 5545 2
C27	ECEA0JU101B	001 120 2829 8
C28	RCBS1E223ZF	001 103 7093 1
C29	ECEA1CU100	001 120 2958 0
C30	ECFZ1C183MDY	001 108 1000 1
C31	ECFZ1C393MDY	001 108 1001 0
C32	ECEA1HU010	001 120 2960 6
C33, C34	ECEA1HUR22	001 120 3247 0
C35, C36	ECFZ1C473MDY	001 108 0997 3
C37	ECFZ1C473MDY	001 108 0997 3
C38	ECQM1H102KV	001 106 3489 6
C39, C40	ECEA50ZR47E	001 120 1287 0
C41	ECEA1HU010	001 120 2960 6
C42	RCBS1H100JY	001 103 5567 6
C43	RCBS1H180JY	001 103 7096 8
C101, C102	RCBS1H561KB	001 103 5637 9
C103	ECEA0JU101B	001 120 2829 8
C104	ECFZ1C333MDY	001 108 1078 9
C105	RCBS1H102KB	001 103 5571 0
C106	ECEA1HU010	001 120 2960 6
C107, C108	ECFZ1C473MDY	001 108 0997 3
C109	RCBS1H102KB	001 103 5571 0
C110	ECFZ1C473MDY	001 108 0997 3
C111	ECEA0JU470	001 120 3858 9
C112	RCBS1H102KB	001 103 5571 0
C113	ECEA1CU100	001 120 2958 0
C114	ECEA1HU0R1	001 120 3250 5
C115	ECFZ1C273MDY	001 108 1077 0
C117	ECFZ1C683MDY	001 108 1079 8
C118	ECEA1CU100	001 120 2958 0
C119	ECFZ1C473MDY	001 108 0997 3
C120	ECEA1HU010	001 120 2960 6
C121	ECFZ1C103MDY	001 108 0995 5
C122	ECEA1HUR33	001 120 3248 9
C123	RCBC1C332MXY	001 103 7086 0
C124	ECEA1HU0R1	001 120 3250 5
C125	RCBS1H102KB	001 103 5571 0
C126	ECFZ1C333MDY	001 108 1078 9
C127	ECFZ1C153MDY	001 108 1075 2
C128	ECEA1HU010	001 120 2960 6
C129	RCBS1H102KB	001 103 5571 0
C130	ECEA1EU3R3B	001 120 3839 2
C131	ECEA1HU010	001 120 2960 6
C132	ECFZ1C104MDY	001 108 0996 4
C133	RCBS1C822MY	001 103 8327 8
C134	ECFZ1C104MDY	001 108 0996 4
C135	ECEA1HU2R2	001 120 3253 2
C136	ECEA1HU010	001 120 2960 6
C137	ECFZ1C104MDY	001 108 0996 4
C138	RCBS1H102KB	001 103 5571 0
C139	ECEA0JU101B	001 120 2829 8
C142	RCBS1C103NYY	001 103 5545 2
C143	ECEA1EU101	001 120 2837 8
C144	ECFZ1C473MDY	001 108 0997 3
C145	ECEA1CS102	001 120 0254 3
C146	ECQV1H224JZ	001 106 3625 6
C147	RCBS1H102KB	001 103 5571 0
C191	ECFZ1C183MDY	001 108 1000 1
C192	RCBS1C222MX	001 103 8858 6
C201, C202	RCBS1H561KB	001 103 5637 9
C203	ECEA0JU101B	001 120 2829 8
C204	ECFZ1C333MDY	001 108 1078 9
C205	RCBS1H102KB	001 103 5571 0
C206	ECEA1HU010	001 120 2960 6
C207, C208	ECFZ1C473MDY	001 108 0997 3
C209	RCBS1H102KB	001 103 5571 0
C210	ECFZ1C473MDY	001 108 0997 3
C211	ECEA0JU470	001 120 3858 9
C212	RCBS1H102KB	001 103 5571 0
C213	ECEA1CU100	001 120 2958 0
C214	ECEA1HU0R1	001 120 3250 5
C215	ECFZ1C273MDY	001 108 1077 0
C217	ECFZ1C683MDY	001 108 1079 8
C218	ECEA1CU100	001 120 2958 0
C219	ECFZ1C473MDY	001 108 0997 3
C220	ECEA1HU010	001 120 2960 6
C221	ECFZ1C103MDY	001 108 0995 5
C222	ECEA1HUR33	001 120 3248 9
C223	RCBC1C332MXY	001 103 7086 0
C224	ECEA1HU0R1	001 120 3250 5
C225	RCBS1H102KB	001 103 5571 0
C226	ECFZ1C333MDY	001 108 1078 9
C227	ECFZ1C153MDY	001 108 1075 2
C228	ECEA1HU010	001 120 2960 6
C229	RCBS1H102KB	001 103 5571 0
C230	ECEA1EU3R3B	001 120 3839 2
C231	ECEA1HU010	001 120 2960 6
C232	ECFZ1C104MDY	001 108 0996 4
C233	ECFZ1C822MDY	001 108 1109 9
C234	ECFZ1C104MDY	001 108 0996 4
C235	ECEA1HU2R2	001 120 3253 2
C236	ECEA1HU010	001 120 2960 6
C237	ECFZ1C104MDY	001 108 0996 4
C238	RCBS1H102KB	001 103 5571 0
C239	ECEA0JU101B	001 120 2829 8
C242	RCBS1C103NYY	001 103 5545 2
C243	ECEA1EU101	001 120 2837 8
C244	ECFZ1C473MDY	001 108 0997 3
C245	ECEA1CS102	001 120 0254 3
C246	ECQV1H224JZ	001 106 3625 6
C247	RCBS1H102KB	001 103 5571 0
C291	ECFZ1C183MDY	001 108 1000 1
C292	RCBS1C222MX	001 103 8858 6
C301	ECEA1HUR22	001 120 3247 0
C302	ECEA0JU470	001 120 3858 9
C303	RCBS1H560JY	001 103 7106 3
C304	ECQP1561JZ3	001 106 5504 6
C305	ECEA1AU221	001 120 3131 1
C306	ECFZ1C103MDY	001 108 0995 5
C307	RCBS1H102KB	001 103 5571 0
C308	ECFZ1C333MDY	001 108 1078 9
C309	RCBS1H102KB	001 103 5571 0
C310	ECFZ1C563MDY	001 108 1002 9
C311	ECEA1HU010	001 120 2960 6
C312	ECEA0JU470	001 120 3858 9
C313, C314	ECEA1CU100	001 120 2958 0
C315	ECEA0JU101B	001 120 2829 8
C316	ECEA0JU470	001 120 3858 9
C317	ECEA1CU100	001 120 2958 0
C318	ECEA1AU471	001 120 3728 8
C319	ECEA0JU470	001 120 3858 9
C320	ECEA1AU101	001 120 2830 5
C321	RCBS1C103NYY	001 103 5545 2
C322	ECEA1HU2R2	001 120 3253 2
C323	ECEA0JU101B	001 120 2829 8
C324	ECEA0JU470	001 120 3858 9
C325	ECEA1AU470	001 120 3870 3
C326	RCBS1C103NYY	001 103 5545 2
C327	ECEA1EU332E	001 120 6079 6
C328	ECEA0JU101B	001 120 2829 8
C329, C330	ECEA1EU221	001 120 3821 2
C331	ECEA1EU330	001 120 3896 3
C332	RCBS1C103NYY	001 103 5545 2
C333	ECEA1EU330	001 120 3896 3
C334	ECEA0JU101B	001 120 2829 8
C337	ECEA1CU100	001 120 2958 0
C338, C339	RCBS1H101KB	001 103 8003 5
C341	RCBS1H102KB	001 103 5571 0
C342	ECEA1AU220B	001 120 3563 1
C343	RCBS1H102KB	001 103 5571 0
C362	RCBS1H101KB	001 103 8003 5
(X)		
C401	RCBS1H330JY	001 103 5618 2
C402, C403	ECUV1E104ZF	001 103 8758 9

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RESISTORS & CAPACITORS

Numbering System of Resistor

Example:

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value (100Ω)

ERJ	6G	C	J	2R2
Type	Wattage	Shape	Tolerance	Value (2.2Ω)

Numbering System of Capacitor

Example:

ECKD	1H	102	Z	F
Type	Voltage	Value (1000pF)	Tolerance	Peculiarity

ECEA	50	M	R47
Type	Voltage	Peculiarity	Value (0.47µF)

Resistor Type	Wattage	Tolerance
ERD: Carbon Resistor	10 : $^{1}/_{8}$W	F : ±1%
ERC: Solid Resistor	25 : $^{1}/_{4}$W	G : ±2%
ERF: Incombustible Box-Shaped Wire-Wound Resistor	50 : $^{1}/_{2}$W 18 : $^{1}/_{8}$W 14 : $^{1}/_{4}$W 12 : $^{1}/_{2}$W	J : ±5% K : ±10% M : ±20%
ERG: Metal Oxide-Film Resistor	1 : 1W 2 : 2W	
ERM: Wire-Wound Resistor	3 : 3W S1 : $^{1}/_{2}$W	
ERO: Superstable Metal Film Resistor	S2 : $^{1}/_{4}$W 6G : $^{1}/_{10}$W 8G : $^{1}/_{8}$W	
ERX: Metal-Film Resistor		
RRJ: ERJ: Chip Resistor		

※ Capacity are in microfarads (µF) unless specified otherwise, P=Pico-farads.

※ Resistance are in ohms (Ω), unless specified otherwise, 1K=1,000Ω, 1M=1,000KΩ

Capacitor Type	Voltage	Tolerance
ECCD: Ceramic Capacitor (Chitacon) ECKD: Ceramic Capacitor (Chitabari) ECFD: Semiconductor Ceramic Capacitor ECE□: Electrolytic Capacitor ECS□: Tantalum Fixed Electrolytic Capacitor ECQ□: Polystyrenc Film Capacitor ECQS: Polystyrene Film Capacitor ECQS: Polypropylene Film Capacitor ECQV: T.F Capacitor ECU□: RCU□: Chip Capacitor ECBT: Cylindrical Ceramic Capacitor	(ECCD, ECKD Type) 1H : 50V DC 2H : 500V DC (ECFD Type) C : 12V DC D : 25V DC E : 50V DC (ECQ Type) 05 : 50WV DC 1 : 100WV DC (ECE, ECS Type) 0G : 4V 0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 1J : 63V 2A : 100V	K : ±10% M : ±20% Z : $^{+80}_{-20}$% J : ±5% G : ±2% F : ±1% C : ±0.25pF D : ±0.5pF

Ref. No.	Part No.	Part Code
RESISTORS		
R1	ERD16TJ473T	001 152 3991 7
R2	ERD16TJ470T	001 152 2933 1
R3	ERD16TJ101T	001 152 2738 2
R4	ERD25TJ152	001 152 2915 3
R5	ERD16TJ681T	001 152 1522 0
R6	ERD25TJ221	001 152 1860 5
R7	ERD16TJ331T	001 152 2744 4
R8	ERD16TJ392T	001 152 6703 7
R9	ERD16TJ221T	001 152 2927 9
R10	ERD16TJ272	001 152 3981 9
R11	ERD16TJ102	001 152 2919 9
R12, R13	ERD16TJ223T	001 152 3977 5
R14	ERD16TJ103T	001 152 2920 6
R15, R16	ERD16TJ332T	001 152 2929 7
R17	ERD25FJ222	001 152 0261 6
R18	ERD16TJ681T	001 152 1522 0
R19	ERD16TJ562T	001 152 2934 0
R20	ERD16TJ102	001 152 2919 9
R21	ERD16TJ473T	001 152 3991 7
R22	ERD16TJ472T	001 152 3990 8
R23	ERD16TJ102	001 152 2919 9
R24	ERD16TJ101T	001 152 2738 2
R101	ERD16TJ683T	001 152 6763 5
R102	ERD16TJ102	001 152 2919 9
R103	ERD16TJ470T	001 152 2933 1
R104	ERD16TJ104T	001 152 2739 1
R105	ERD16TJ332T	001 152 2929 7
R106	ERD16TJ103T	001 152 2920 6
R107	ERD16TJ153T	001 152 2924 2
R108	ERD16TJ152T	001 152 3971 1
R109	ERD16TJ391T	001 152 6608 5
R110, R111	ERD16TJ103T	001 152 2920 6
R112	ERD16TJ101T	001 152 2738 2
R113	ERD16TJ122T	001 152 6604 9
R114	ERD16TJ331T	001 152 2744 4
R116	ERD16TJ822T	001 152 6613 8
R117, R118	ERD16TJ122T	001 152 6604 9
R119	ERD16TJ153T	001 152 2924 2
R120	ERD16TJ472T	001 152 3990 8
R121	ERD16TJ473T	001 152 3991 7
R122, R123	ERD16TJ823T	001 152 6764 4
R124	ERD16TJ102	001 152 2919 9
R125	ERD16TJ105T	001 152 3967 7
R126	ERD16TJ103T	001 152 2920 6
R127	ERD16TJ472T	001 152 3990 8
R128	ERD16TJ105T	001 152 3967 7
R129	ERD16TJ223T	001 152 3977 5
R130	ERD16TJ153T	001 152 2924 2
R131 (X)	ERD16TJ2R2T	001 152 3976 6
R132	ERD16TJ2R2T	001 152 3976 6
R133	ERD16TJ101T	001 152 2738 2
R134	ERD16TJ273T	001 152 6607 6
R135	ERD16TJ333T	001 152 2930 4
R191	ERD16TJ102	001 152 2919 9
R192	ERD16TJ222T	001 152 2928 8
R193	ERD16TJ102	001 152 2919 9
R201	ERD16TJ683T	001 152 6763 5
R202	ERD16TJ102	001 152 2919 9
R203	ERD16TJ470T	001 152 2933 1
R204	ERD16TJ104T	001 152 2739 1
R205	ERD16TJ332T	001 152 2929 7
R206	ERD16TJ103T	001 152 2920 6
R207	ERD16TJ153T	001 152 2924 2
R208	ERD16TJ152T	001 152 3971 1
R209	ERD16TJ391T	001 152 6608 5
R210, R211	ERD16TJ103T	001 152 2920 6
R212	ERD16TJ101T	001 152 2738 2
R213	ERD16TJ122T	001 152 6604 9
R214	ERD16TJ331T	001 152 2744 4
R216	ERD16TJ822T	001 152 6613 8
R217, R218	ERD16TJ122T	001 152 6604 9
R219	ERD16TJ153T	001 152 2924 2
R220	ERD16TJ472T	001 152 3990 8
R221	ERD16TJ473T	001 152 3991 7
R222, R223	ERD16TJ823T	001 152 6764 4
R224	ERD16TJ102	001 152 2919 9
R225	ERD16TJ105T	001 152 3967 7
R226	ERD16TJ103T	001 152 2920 6
R227	ERD16TJ472T	001 152 3990 8
R228	ERD16TJ105T	001 152 3967 7
R229	ERD16TJ223T	001 152 3977 5
R230	ERD16TJ153T	001 152 2924 2
R231 (X)	ERD16TJ2R2T	001 152 3976 6
R232	ERD16TJ2R2T	001 152 3976 6
R233	ERD16TJ101T	001 152 2738 2
R234	ERD16TJ273T	001 152 6607 6
R235	ERD16TJ333T	001 152 2930 4
R291	ERD16TJ102	001 152 2919 9
R292	ERD16TJ222T	001 152 2928 8
R301	ERD16TJ472T	001 152 3990 8
R302	ERD16TJ332T	001 152 2929 7
R303	ERD16TJ822T	001 152 6613 8
R304	ERD16TJ221T	001 152 2927 9
R305	ERD16TJ471T	001 152 3989 1
R306	ERD16TJ104T	001 152 2739 1
R307	ERD16TJ150T	001 152 5662 3
R308	ERD16TJ474T	001 152 3992 6
R309	ERD16TJ470T	001 152 2933 1
R310	ERD16TJ222T	001 152 2928 8
R311	ERD16TJ471T	001 152 3989 1
R312	ERD16TJ681T	001 152 1522 0
R313, R314	ERD16TJ223T	001 152 3977 5
R315, R316	ERD16TJ223T	001 152 3977 5
R317	ERD16TJ561T	001 152 2746 2
R318	ERD16TJ153T	001 152 2924 2
R319	ERD16TJ223T	001 152 3977 5
R320	ERD16TJ225T	001 152 6761 7
R321	ERD25FJ103	001 152 0216 1
R322	ERD16TJ103T	001 152 2920 6
R323	ERD16TJ221T	001 152 2927 9
R324, R325	ERD16TJ473T	001 152 3991 7
R326	ERD16TJ223T	001 152 3977 5
R327, R328	ERD16TJ103T	001 152 2920 6
R329	ERD16TJ103T	001 152 2920 6
R330	ERD16TJ123T	001 152 2923 3
R331	ERD16TJ681T	001 152 1522 0
R332	ERD16TJ221T	001 152 2927 9
R333	ERD25TJ152	001 152 2915 3
R334	ERD25FJ182	001 152 0248 3
R335	ERD25TJ152	001 152 2915 3
R336	ERD25FJ182	001 152 0248 3
R337, R338	ERD16TJ181T	001 152 6605 8
R339	ERD16TJ391T	001 152 6608 5
R340	ERD16TJ102	001 152 2919 9
R341, R342	ERD16TJ182T	001 152 3974 8
R343	ERD16TJ103T	001 152 2920 6

ORDER NO. GAD8706127A4

Service Manual

Radio Cassette

Portable Stereo Component System

RX-CW55F

(Black)

This is the Service Manual
for the following areas.
[ME]....For AAFES EUROPE.
[MF]....For AAFES PACIFIC.

- **Please use this manual together with the service manual for Model No.RX-CW55F order No.GAD8705087C3.**
- **This Service Manual indicates the main differences between;Original RX-CW55F (for [X]mark area) and RX-CW55F[ME] [MF] for AAFES PACIFIC & EUROPE.**

CHANGES OF PARTS

PARTS COMPARISON TABLE

Ref.No.	Desciption	Parts Number		Remarks
		RX-CW55F[X](Original)	RX-CW55F[ME] [MF]	
K72	Rear Cabinet Ass'y	RYF1XCW55FX	**RYF1XCW55FME**	
K72F	Name Plate	RGT63ZA	**RGTK63SA-0**	
K73	Front Cabinet Ass'y	RYM1XCW55FX	**RYM1XCW55FME**	
P3	Gift Box	RPKK1090ZA	**RPKK1103ZA**	
A3	Tape	RJN48Z	-------	**Deleted**
A4	Instruction Book	RQXK4076ZA	**RQXK4086ZA**	

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